

IL Route 131 Phase I Study

Workshop #2 Group Exercise - Number of Lanes



Two Lanes



Three Lanes



Four Lanes - Divided



Four Lanes - Flush

**Need #1:
Improve Safety**

| | | | | |
|------------|------|------|-------------|------|
| Vehicle | 1.44 | 2.78 | 4.59 | 4.06 |
| Pedestrian | 1.61 | 1.88 | 2.81 | 2.65 |
| Bicycle | 1.44 | 2.00 | 2.94 | 2.71 |

**Need #2:
Improve Capacity**

| | | | | |
|------------|------|------|-------------|------|
| Vehicle | 1.39 | 2.61 | 4.61 | 4.33 |
| Pedestrian | 1.24 | 1.71 | 2.82 | 2.71 |
| Bicycle | 1.24 | 1.88 | 2.82 | 2.71 |

**Need #3:
Improve Operations/Mobility**

| | | | | |
|------------|------|------|------|-------------|
| Vehicle | 1.56 | 2.83 | 4.06 | 4.33 |
| Pedestrian | 1.41 | 1.94 | 2.41 | 2.82 |
| Bicycle | 1.35 | 2.06 | 2.53 | 2.76 |

Ratings 1 - Does not meet needs. 5 - Completely meets needs.

IL Route 131 Phase I Study

Workshop #2 Group Exercise - Median Treatment



No Median



Flush Two-Way Left Turn Lane



Raised Barrier Curb Median



Wide Grass Median

**Need #1:
Improve Safety**

| | | | | |
|------------|------|------|------|-------------|
| Vehicle | 1.24 | 3.18 | 3.71 | 3.88 |
| Pedestrian | 1.19 | 2.19 | 2.73 | 2.79 |
| Bicycle | 1.13 | 2.13 | 2.47 | 2.79 |

**Need #2:
Improve Capacity**

| | | | | |
|------------|------|------|-------------|-------------|
| Vehicle | 1.29 | 3.24 | 3.29 | 3.69 |
| Pedestrian | 1.44 | 2.25 | 2.60 | 2.57 |
| Bicycle | 1.44 | 2.19 | 2.53 | 2.64 |

**Need #3:
Improve Operations/Mobility**

| | | | | |
|------------|------|------|-------------|-------------|
| Vehicle | 1.41 | 3.24 | 3.18 | 3.50 |
| Pedestrian | 1.38 | 2.25 | 2.53 | 2.50 |
| Bicycle | 1.31 | 2.13 | 2.60 | 2.71 |

Ratings

1 - Does not meet needs.

5 - Completely meets needs.

IL Route 131 Phase I Study

Workshop #2 Group Exercise - Edge Treatment



Aggregate Shoulder



Paved Shoulder



Curb & Gutter



Paved Shoulder with Curb & Gutter

**Need #1:
Improve Safety**

| | | | | |
|------------|-------------|-------------|-------------|-------------|
| Vehicle | <u>2.12</u> | <u>3.29</u> | <u>1.97</u> | <u>4.06</u> |
| Pedestrian | <u>1.82</u> | <u>2.76</u> | <u>1.62</u> | <u>3.24</u> |
| Bicycle | <u>1.71</u> | <u>2.94</u> | <u>1.56</u> | <u>3.24</u> |

**Need #2:
Improve Capacity**

| | | | | |
|------------|-------------|-------------|-------------|-------------|
| Vehicle | <u>1.88</u> | <u>2.94</u> | <u>1.97</u> | <u>3.59</u> |
| Pedestrian | <u>1.71</u> | <u>2.88</u> | <u>1.62</u> | <u>3.18</u> |
| Bicycle | <u>1.59</u> | <u>2.88</u> | <u>1.68</u> | <u>3.18</u> |

**Need #3:
Improve Operations/Mobility**

| | | | | |
|------------|-------------|-------------|-------------|-------------|
| Vehicle | <u>1.94</u> | <u>3.18</u> | <u>2.21</u> | <u>3.76</u> |
| Pedestrian | <u>1.76</u> | <u>3.00</u> | <u>1.68</u> | <u>3.29</u> |
| Bicycle | <u>1.65</u> | <u>3.00</u> | <u>1.62</u> | <u>3.29</u> |

Ratings

1 - Does not meet needs.

5 - Completely meets needs.

IL Route 131 Phase I Study

Workshop #2 Group Exercise - Pedestrian & Bicycle Accommodation



Sidewalk



Shared Use Path



Paved Shoulder



Bicycle Lane

**Need #1:
Improve Safety**

| | | | | |
|------------|-------------|-------------|------|------|
| Vehicle | 4.19 | 4.24 | 2.82 | 2.88 |
| Pedestrian | 4.76 | 4.56 | 2.56 | 2.33 |
| Bicycle | 3.88 | 4.56 | 2.83 | 3.33 |

**Need #2:
Improve Capacity**

| | | | | |
|------------|-------------|-------------|------|------|
| Vehicle | 3.75 | 3.71 | 2.94 | 2.82 |
| Pedestrian | 4.76 | 4.56 | 2.61 | 2.50 |
| Bicycle | 4.13 | 4.59 | 2.94 | 3.65 |

**Need #3:
Improve Operations/Mobility**

| | | | | |
|------------|-------------|-------------|------|------|
| Vehicle | 3.94 | 3.94 | 3.24 | 2.82 |
| Pedestrian | 4.76 | 4.72 | 2.44 | 2.39 |
| Bicycle | 3.88 | 4.61 | 2.78 | 3.61 |

Ratings **1 - Does not meet needs** **5 - Completely meets needs**

IL Route 131 Phase I Study

Workshop #2 Group Exercise - Consensus Ratings

| | Number of Lanes | Median Treatment | Edge Treatment | Pedestrian/Bicycle Accommodations |
|---|--|---|---|---|
| Need #1: Improve Safety | | | | |
| Vehicle | <u>Four Lanes - Divided (Average = 4.59)</u> | <u>Wide Grass Median (Average = 3.88)</u> | <u>Paved Shoulder with Curb & Gutter (Average = 4.06)</u> | <u>Shared Use Path (Average = 4.24)</u> |
| Pedestrian | <u>Four Lanes - Divided (Average = 2.81)</u> | <u>Wide Grass Median (Average = 2.79)</u> | <u>Paved Shoulder with Curb & Gutter (Average = 3.24)</u> | <u>Sidewalk (Average = 4.76)</u> |
| Bicycle | <u>Four Lanes - Divided (Average = 2.94)</u> | <u>Wide Grass Median (Average = 2.79)</u> | <u>Paved Shoulder with Curb & Gutter (Average = 3.24)</u> | <u>Shared Use Path (Average = 4.56)</u> |
| Need #2: Improve Capacity | | | | |
| Vehicle | <u>Four Lanes - Divided (Average = 4.61)</u> | <u>Wide Grass Median (Average = 3.69)</u> | <u>Paved Shoulder with Curb & Gutter (Average = 3.59)</u> | <u>Sidewalk (Average = 3.75)</u> |
| Pedestrian | <u>Four Lanes - Divided (Average = 2.82)</u> | <u>Raised Barrier (Average = 2.60)</u> | <u>Paved Shoulder with Curb & Gutter (Average = 3.18)</u> | <u>Sidewalk (Average = 4.76)</u> |
| Bicycle | <u>Four Lanes - Divided (Average = 2.82)</u> | <u>Wide Grass Median (Average = 2.64)</u> | <u>Paved Shoulder with Curb & Gutter (Average = 3.18)</u> | <u>Shared Use Path (Average = 4.59)</u> |
| Need #3: Improve Operations/Mobility | | | | |
| Vehicle | <u>Four Lanes - Flush (Average = 4.33)</u> | <u>Wide Grass Median (Average = 3.50)</u> | <u>Paved Shoulder with Curb & Gutter (Average = 3.76)</u> | <u>Sidewalk or Shared Use Path (Average = 3.94)</u> |
| Pedestrian | <u>Four Lanes - Flush (Average = 2.82)</u> | <u>Raised Barrier (Average = 2.53)</u> | <u>Paved Shoulder with Curb & Gutter (Average = 3.29)</u> | <u>Sidewalk (Average = 4.76)</u> |
| Bicycle | <u>Four Lanes - Flush (Average = 2.76)</u> | <u>Wide Grass Median (Average = 2.71)</u> | <u>Paved Shoulder with Curb & Gutter (Average = 3.29)</u> | <u>Shared Use Path (Average = 4.61)</u> |
| Overall Preference | <u>Four Lanes - Divided (Average = 3.43)</u> | <u>Wide Grass Median (Average = 3.14)</u> | <u>Paved Shoulder with Curb & Gutter (Average = 3.07)</u> | <u>Shared Use Path (Average = 4.39)</u> |