RIVERSIDE DR AND W 165TH ST

Community Board 12

October 2, 2023
BACKGROUND

- Request by Department of Parks and Recreation to improve neighborhood access to Fort Washington Park
- CB 12 voted in support of project locations B and C in Spring 2020 (2024 implementation)
• Entrance to dog run
• New York-Presbyterian Hospital/Columbia University
• Signal timing adjusted in late 2018
  • Westbound to north-bound right on W165 changed to no turn on red
• 6 of the pedestrian injuries occurred while pedestrians were crossing with the correct signal
• With only one crosswalk, pedestrians cross without crosswalk regularly

<table>
<thead>
<tr>
<th></th>
<th>Total Injuries</th>
<th>Severe Injuries</th>
<th>Fatalities</th>
<th>KSI</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pedestrian</td>
<td>13</td>
<td>1</td>
<td>0</td>
<td>1</td>
</tr>
<tr>
<td>Bicyclists</td>
<td>4</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Motor Vehicle Occupant</td>
<td>52</td>
<td>4</td>
<td>0</td>
<td>4</td>
</tr>
<tr>
<td>Total</td>
<td>69</td>
<td>5</td>
<td>0</td>
<td>5</td>
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</tbody>
</table>

KSI = Killed or Severely Injured
Existing Conditions
EXISTING CONDITIONS

- Only one crosswalk for entire intersection
- Pedestrians have only 7 seconds of protected time to cross right turn lane
- 800 right turning vehicles (extremely high volumes)
- Perceived pedestrian anxiety from voluminous rights
- Long crossing distances, marked or unmarked
- Natural crossing desire lines can be behind waiting vehicles
- Legal crossing: ~950 feet to travel for pedestrians walking north-south instead of 51 feet
SIGNAL TIMING – 90 SECONDS TOTAL

PHASE A  PHASE B  PHASE C  PHASE D  PHASE E

39 seconds  7 seconds  18 seconds  13 seconds  13 seconds

- Vehicular green movement
- Vehicular red stop
- Vehicular flashing yellow arrow – proceed with caution

• Signal timing adjusted in late 2018
  • Westbound to north-bound right on W165 changed to no turn on red
  • Right turn is red for just 7 seconds (of 90 secs), remainder of signal cycle is flashing yellow/yield

Pedestrian walk phase
Pedestrian flashing don’t walk phase
Proposed Plan
Crosswalks

Concrete

Painted Pedestrian Space with Flexible Delineators

Lane Designations

Signal Timing
1. Install two new crosswalks
2. Install graveled/painted pedestrian space
3. Install concrete median extension
4. Add South-bound left-turn lane
5. Reconfigure W165th St lane assignments
6. No right turn from northbound Riverside Dr to W 165th St
7. Revise signal timing
• Shortened crossing distances
• Stop bars relocated to meet standard intersection design
Curbside space:

1. **Clarify vehicle movements:**
   a. Convert 17 short term (rush hour regulation No Standing Anytime 7 am-10 M-F) parking spaces to full time moving lane to accommodate a southbound left turn lane
   b. Convert 11 long term parking spaces to a new merge lane from Upper Riverside Dr
   c. Convert 9 short term parking spaces to a 2nd full time right turn lane on westbound W165th St

2. **Add Parking:**
   Install 2 parking spaces along new concrete median extension

35 Parking Spaces Reallocated
SIGNAL TIMING

- Fewer, simpler phases
- Increased safety
- Dedicated pedestrian crossing phases
- Clarity of movements

**Existing**

<table>
<thead>
<tr>
<th>PHASE A</th>
<th>PHASE B</th>
<th>PHASE C</th>
<th>PHASE D</th>
<th>PHASE E</th>
</tr>
</thead>
<tbody>
<tr>
<td>39 seconds</td>
<td>7 seconds</td>
<td>18 seconds</td>
<td>13 seconds</td>
<td>13 seconds</td>
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</table>

**Proposed**

<table>
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<tr>
<th>PHASE A</th>
<th>PHASE B</th>
<th>PHASE C</th>
<th>PHASE D</th>
<th>PHASE E</th>
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</thead>
<tbody>
<tr>
<td>30 seconds</td>
<td>36 seconds</td>
<td>24 seconds</td>
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EXISTING / PROPOSED COMPARISON

Existing Conditions

Proposed Plan
BENEFITS

- Improved signal timing for enhanced pedestrian safety
- More crosswalks for more accessible, safer crossing
- Shorter crossing distances
- Redesigned intersection & turn lanes
- Clearer vehicular movements
THANK YOU!

Questions?

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