

West End Neighborhood Traffic Evaluation – 2018

Produced for The City of Portland

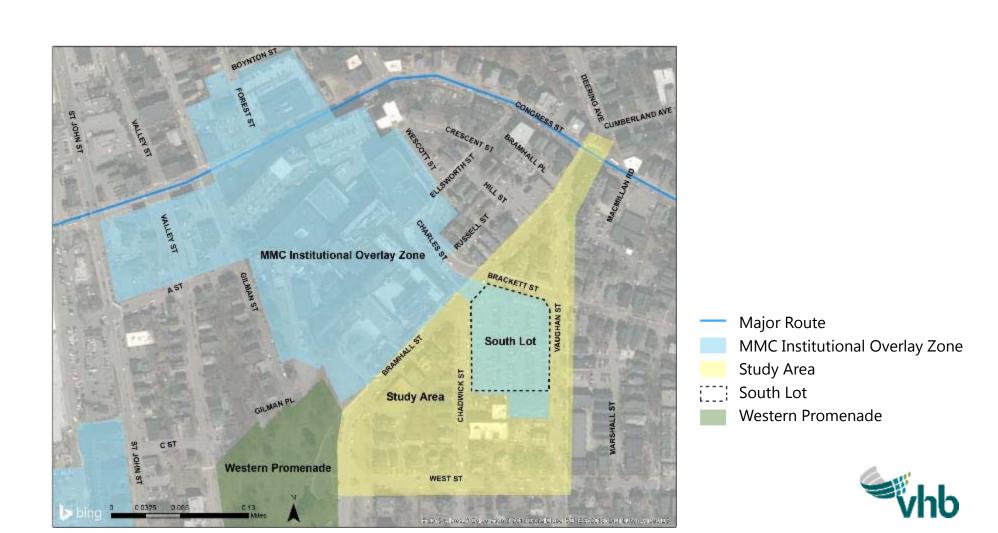


Study Goals

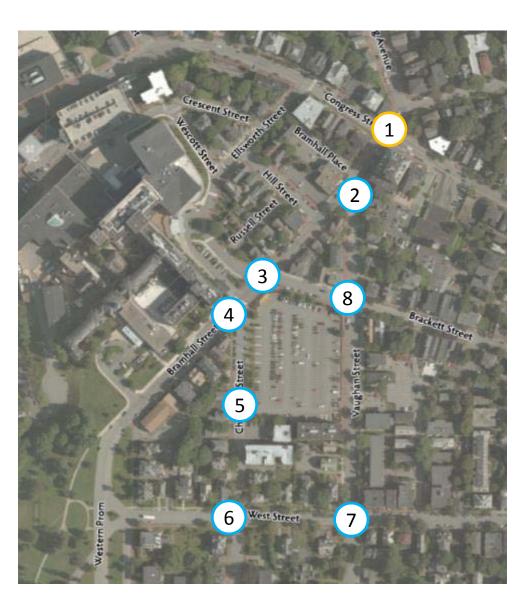
- Assess existing transportation conditions for the West End neighborhood.
- Evaluate alternatives to improve access, circulation, efficiency, and pedestrian/bicycle safety including:
 - Reduce hospital vehicle trips on neighborhood streets
 - Improve intersection safety at key locations
 - Improve pedestrian crossing safety along Bramhall Street
 - Provide improved bicycle accommodations
 - Improve hospital wayfinding
- Determine and assess future conditions with each alternative



Site Context & Study Area Map



Study Area Intersections



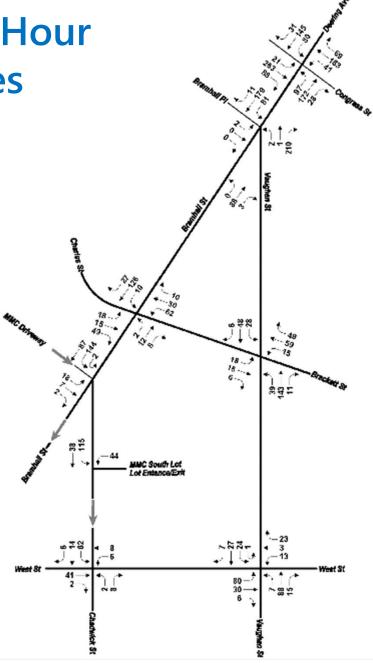
- # Signalized
- # Unsignalized
- (1) Congress St / Deering Ave / Bramhall St
- 2 Bramhall St / Vaughan St / Bramhall Pl
- 3 Bramhall St / Brackett St
- 4 Bramhall St / Chadwick St
- 5 Chadwick St
- 6 Chadwick St / West St
- 7 Vaughan St / West St
- 8 Vaughan St / Brackett St

Study Conducted in July 2018



2018 AM Peak Hour Vehicle Volumes

(7:30 - 8:30)

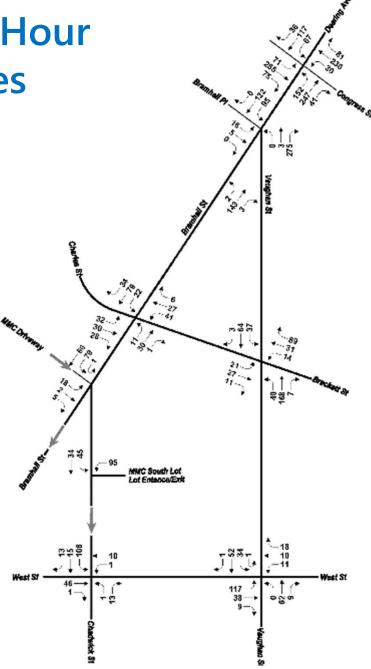






2018 PM Peak Hour Vehicle Volumes

(4:00 - 5:00)

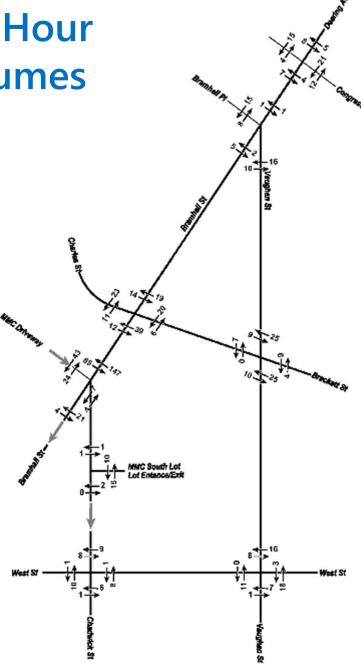






2018 AM Peak Hour Pedestrian Volumes

(7:30 - 8:30)

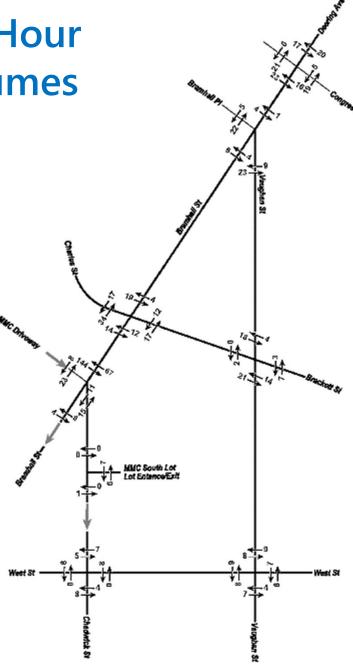






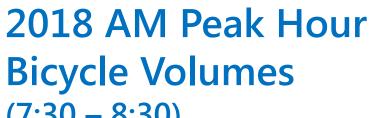
2018 PM Peak Hour Pedestrian Volumes

(4:00 - 5:00)

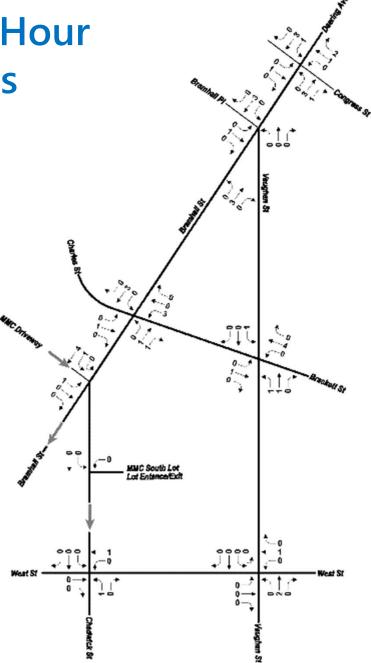








(7:30 - 8:30)

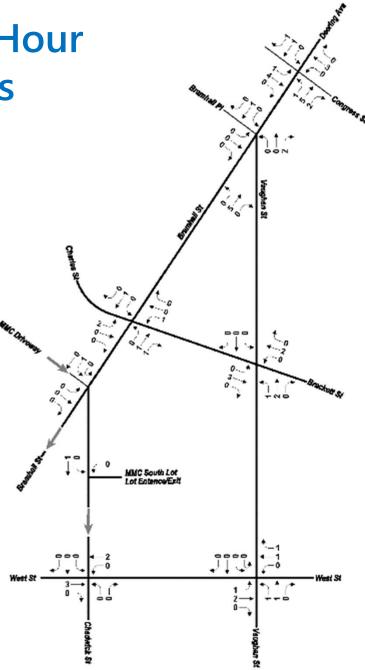






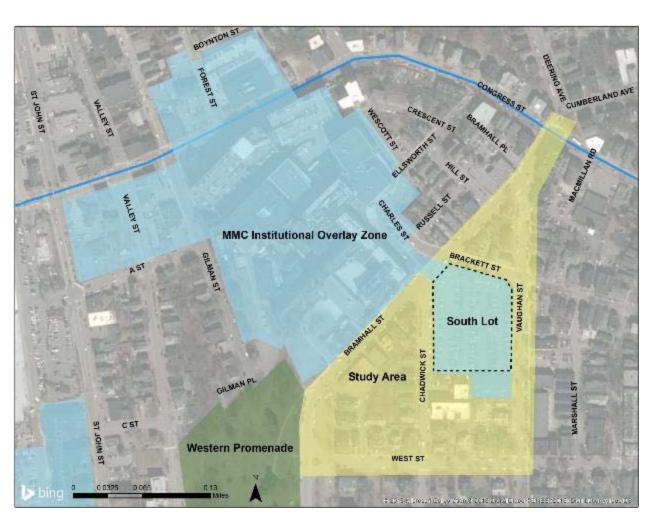
2018 PM Peak Hour Bicycle Volumes

(4:00 - 5:00)





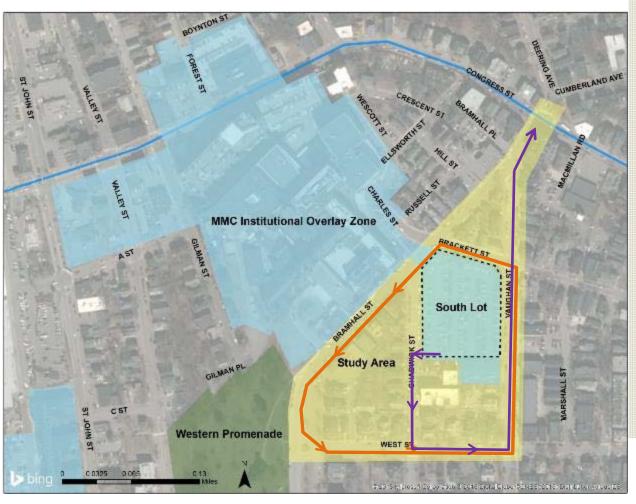




- Inefficient Traffic Circulation
- 2. Traffic Control Driver Non-Compliance
- 3. Intersection Safety
- 4. Pedestrian Accommodations/ Safety
- 5. Bicycle Accommodations/ Safety
- 6. Wayfinding
- Major Route
- MMC Institutional Overlay Zone
 - Study Area
- South Lot
- Western Promenade



1. Traffic Circulation



1. Traffic Circulation

- Vehicles exiting South Lot
- Vehicles lost on campus or searching for parking

Traffic circulates West End due to Chadwick St and Bramhall St being one-way.

Percent of total Chadwick St traffic attributed to South Lot egress:

- 53% during AM Peak Hour
- 74% during PM Peak Hour

Percentage of total Vaughan St NB traffic attributed to South Lot egress:

- 42% during AM Peak Hour
- 86% during PM Peak Hour

Additional hospital-related traffic may park on-street or circulate in the West End due to lack of clear signage



2. Traffic Control: Driver Non-Compliance



1. Traffic Circulation

- Vehicles exiting South Lot
- Vehicles lost on campus or searching for parking



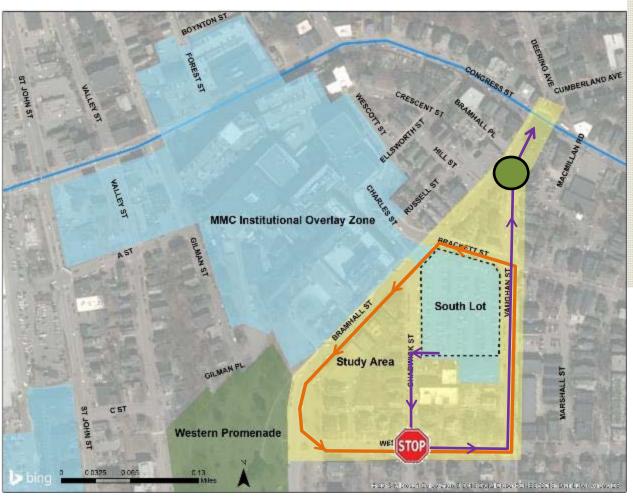
2. Traffic Control: Driver Non-Compliance

Neighborhood concern regarding drivers not complying with STOP control at the intersection of Chadwick Street / West Street





Study Area Issues, Challenges, Opportunities 3. Intersection Safety: Vaughan St at Bramhall St

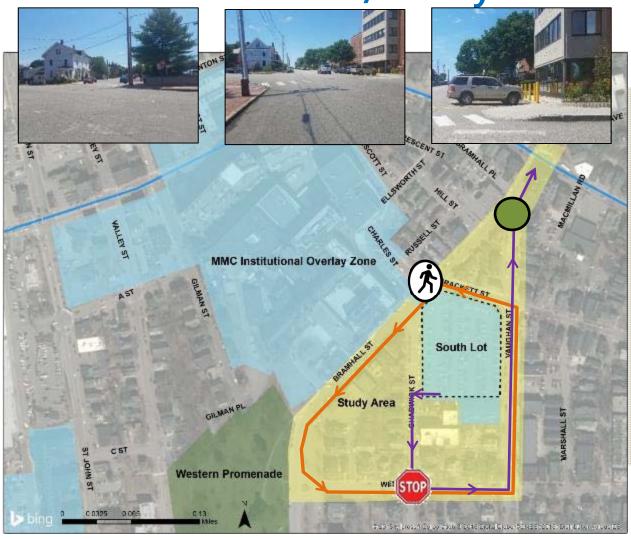


- 1. Traffic Circulation
- Vehicles exiting South Lot
- Vehicles lost on campus or searching for parking
- 2. Traffic Control: Driver Non-Compliance
- 3. Intersection Safety: Vaughan Street at Bramhall Street
- Stop control on Bramhall Street northbound but not Vaughan Street
- Sight distance issues
- Difficult for pedestrians and cyclists to travel through (70foot crossing on Vaughan Street)



4. Pedestrian

Accommodations/Safety



1. Traffic Circulation

- Vehicles exiting South Lot
- Vehicles lost on campus or searching for parking





4. Pedestrian Accommodations/Safety

- Faded or non-existent crosswalk and lane markings
- Wide Crossings
- Missing Tactile Warning Strip on key corner of hospital to cross to patient parking lot

Bramhall Street crossing

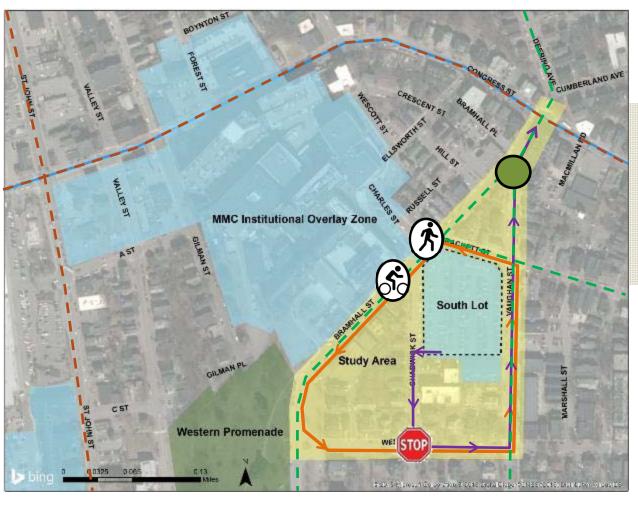
- 50-feet across
- 232 pedestrians during AM Peak

Chadwick Street crossing

- 75-feet across
- 26 pedestrians during AM Peak



5. Bicycle Accommodations/Safety



- 1. Traffic Circulation
- Vehicles exiting South Lot
- Vehicles lost on campus or searching for parking
- 2. Traffic Control: Driver Non-Compliance
- 3. Intersection Safety: Vaughan Street at Bramhall Street
- 4. Pedestrian Accommodations/Safety
- 5. Bicycle
 Accommodations/Safety
 - ···· Planned On Road Bikeway
 - ***** Planned Neighborhood Byway

No in-road bicycle accommodations; all still planned



6. Wayfinding

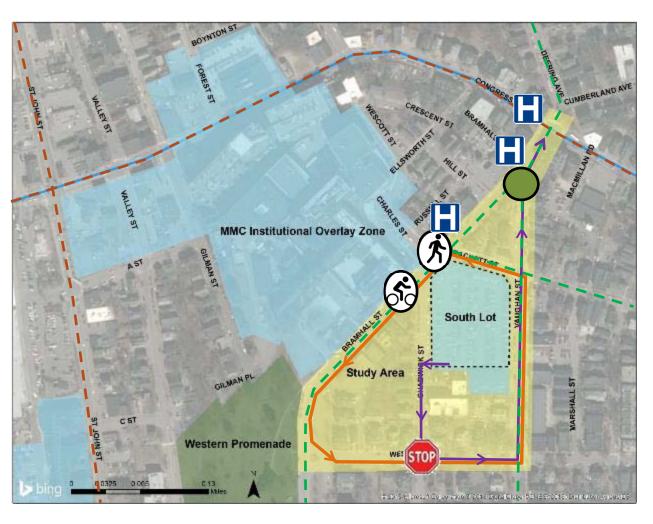


- 1. Traffic Circulation
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- 2. Traffic Control: Driver Non-Compliance
- 3. Intersection Safety:
 Vaughan Street at Bramhall
 Street
- 4. Pedestrian Accommodations/Safety
- 5. Bicycle Accommodations/Safety
 - ···· Planned On Road Bikeway
 - ···· Planned Neighborhood Byway

6. Wayfinding

Lack of clear signage for patients/visitors accessing drop-off and parking

- Congress Street signage not close enough to indicate where to turn
- No signage at Vaughan Street from Bramhall Street
- Unclear South Lot parking signage



- 1. Traffic Circulation
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 Accommodations/Safety
- 5. Bicycle
 Accommodations/Safety
 Planned On Road Bikeway
 Planned Neighborhood Byway
- 6. Wayfinding

Potential Improvement Actions to Consider

Conceptual Plan:

- Traffic Circulation
 - Make Chadwick Street two-way between West Street and Bramhall Street.
- Pedestrian and Bicycle Safety
 - Provide curb extensions along Bramhall St after/before edge of parking at intersections to extend pedestrian area and shorten crossing distance at Bramhall Street/Chadwick Street, Bramhall Street/Brackett Street.
 - Restripe pedestrian crosswalks so they are fresh and more visible.
 - Install tactile warning strip at key hospital crossing across Bramhall Street.
 - Add sharrows and bike lanes on Bramhall Street, Vaughan Street and Brackett Street where they fit. Consistent with City's neighborhood byway plan.
 - Remove perpendicular on-street handicapped parking at intersection of Bramhall and Chadwick Street.
 - Improve bus stop on Bramhall Street.
- Intersection Safety: Bramhall Street at Vaughan Street
 - Change geometry of Bramhall Street and Vaughan Street by adding curb extensions to improve safety for pedestrians and shorten crossing distance.
 - Restripe pedestrian crosswalks so they are fresh and more visible.
 - Consider Vaughan Street stop control instead of Bramhall St northeast bound due to poor sight distance and re-routed South Lot traffic.
 - Install LED flashing STOP signs and add stop bars.
- Improve Wayfinding
- Increased Patient/Visitor Parking
 - Will help reduce hospital related visitors from circulating looking for parking or getting lost trying to find MMC's South Lot





Questions/Next Steps





207.889.3150

City of Portland

No.	Revision	Date	Appvd
Designe	ed by	Checked by	

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Not Approved for Construction

Drawing Title

Streetscape Studies -Conceptual
Master Plan Illustrating Potential
Improvement Actions to Consider

Drawing Numb

CSP-2

C3P-

Project Number 14282.00