

# **Summary**

The Downtown Racine Public Realm and Parking Plan is built upon public consultation and Downtown Racine's well-established street network and building fabric. The study area's network of primary streets (i.e., Main Street and 6th and 7th Street) are under the jurisdiction of WisDOT as State Trunk Highway 32. They frame and connect a series of public spaces including Monument Square, the roundabout east of City Hall, Sam Johnson Park Walkway and features along Lake Michigan. This public realm plan articulates a series of feasible changes that can be made to the streets and public spaces to support the area's vitality by encouraging pedestrian and cycling activity while maintaining vehicle access and parking.

Main Street and the series of one-way streets were designed to move traffic rapidly to, from , and through the downtown during a time when Racine's population was greater, employment was focused on manufacturing and shift work, and when priorities for downtowns were

different. Today's smaller population and the transition away from manufacturing has created excess car-carrying capacity in the downtown transportation network. The excess capacity and wide one-way streets have led to poor motorist behavior (i.e., speeding, weaving, and aggressive driving). The results are a poor downtown environment for pedestrians and cyclists and a reduced potential for social and economic exchange. There is opportunity to rectify these conditions through design changes to the streets to accommodate all users of the streets safely and comfortably while still providing motor vehicle capacity and parking. Simultaneously, the public spaces can be improved to increase social and economic exchange and civic identity and pride.

The following recommendations result from public consultation and site investigation that occurred during July, 2019, by Toole Design Group and Walker Consultants.

	Recommendation	Process	Timeline	Responsibility
1	Adopt the Racine Downtown Public Realm and Parking Plan	Embody the plan in the City's Comprehensive Plan through the Planning Commission to the Common Council	Immediate- 60 to 90 days from Final Report	Public Works Commissioner sponsorship with involvement of Parks Department and City Development
2	Form a Downtown Racine Steering Committee	Develop terms of reference for and create a non-political committee of enthusiastic proponents of the downtown to maintain the project momentum through monitoring the vision against a schedule they develop and advocating for funding while being ambassadors of the plan.	Immediate- following adoption of Final Report	Co-sponsored by Public Works Commissioner and Planning Commissioner
3	Reverse one-way traffic flow on the west side of Monument Square and change parking configuration to parallel parking.	Public works to implement change as per customary notification, execution and enforcement practice	Immediately	Public Works and City Development

	Recommendation	Process	Timeline	Responsibility
4	Promote and Encourage the Use of Downtown Parking Ramps	Increase on-street parking cost to \$1.00 per hour along Main Street, around the Square, and along 6th Street and pilot reduce after hour fees at parking ramps to encourage customer turnover on-street and encourage long-term/employee parking in the ramps.	Immediate	Parking Manager
5	Transition to Multi- Space Meters Throughout Downtown	Remove individual downtown parking meters and replace with multi-space meters using pay-by-plate and Passport App technology to reduce visual clutter, simplify winter maintenance, and reduce operating costs.	2021	Parking Manager
6	Restore Lake and Wisconsin Avenues to Two-way Operations	Public Works to work to seek Common Council approval of adopted plan and City Engineer to develop studies and cost estimate to implement changes	2021	City Engineer
7	Advance the State Trunk Highway Change, concurrent with two-waying 32/20 (6th and 7th) and dieting Main Street	Public works to coordinate with WisDOT Southeast Office for process and timeline requirements while scoping, funding and executing required studies.  Main Street from State Street to 5th first phase with 5th to 7th street as phase two.	2020-Consult with WisDOT	Public Works, specifically City Engineer's Office
8	Advance Monument Square Design	Add Public Improvement budget item recognizing consecutive years of overlapping funding for: Infrastructure Condition Assessment and Needs in 2020 Schematic Design through Construction Documents 2021 Construction through 2023	2020 Budget line items  Planning Studies and Design – 3 years out  Construction – 4 years out	Public Works Commissioner sponsor with Involvement of City Engineer, Parks Department and City Development
9	6th Street Bicycle Lanes East of Main Street Connection to Pershing Park	Codify to include Pershing Avenue and hotel design in line with Monument square reconstruction and plan for a stronger connection along 6th Street/ Sam Johnson Parkway, from the Square to Lake Michigan	Concurrent with Monument Square Design	Public Works Commissioner sponsor with Involvement of City Engineer, Parks Department and City Development

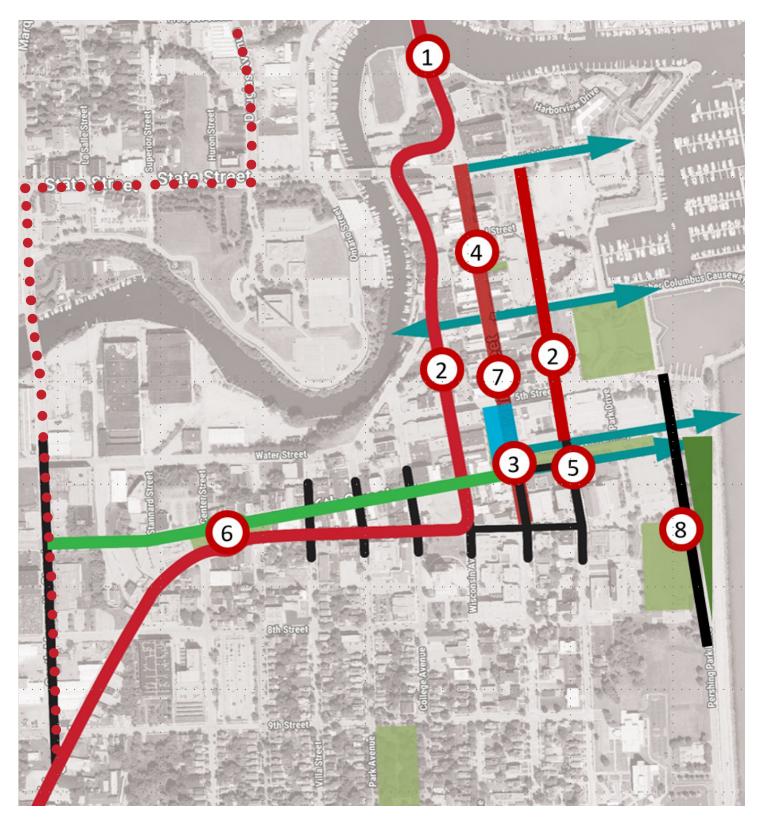


Figure 1: Overall design concept for downtown Racine, WI. 1) Connecting State Trunk Highway re-designation to Wisconsin Avenue at 2nd Street; 2) Two-way Wisconsin and Lake Avenues; 3) Begin Monument Square studies and detail design; 4) Main Street road diet; 5) Bicycle lanes on 6th Street, east of Main Street; 7) Monument Square reconstructed as a plaza; and 8) Reconstruct Pershing Park Drive concurrent with waterfront development. Note the blue lines with arrows are important views that need protecting. The dotted line represents an alternative re-routing option for the State Trunk Highway.

# Introduction

Toole Design's urban design, landscape architecture, transportation, and traffic analysis team, supported by the parking plan expertise of Walker Consultants, was enlisted by the City of Racine to create a public realm and parking plan for its downtown. The plan is divided into three related parts: i) a traffic design for the Main Street corridor; ii) a strategy for the downtown parking system; and iii) a re-design of Monument Square. Supporting these three parts are a series of recommendations for parallel streets, streets to and from the waterfront, and the State Trunk Highway within the downtown. The sum of these parts and recommendations will be instrumental in making the downtown to be "a welcoming destination, a place to arrive and stay, a thriving business and cultural center, and a place to call home."

The plans and designs were developed during two, four-day, collaborative workshops, from July 8 to July 11 and from July 29 to August 1, 2019. During the workshops, there were many opportunities for City staff, Downtown Racine Corporation (DRC) officials, business owners, the Wisconsin Department of Transportation (WisDOT), civic leaders, property owners, and other members of the community to provide input and feedback. The process culminated with a public presentation of the design concepts on the last day of the final workshop. There was broad consensus to move forward with the recommended design concepts outlined in the presentation. The purpose of this report is to summarize the design process, design concepts, and augment the diagrams and presentations that were developed during the workshops.

# **The Design Process**

Downtown Racine is fortunate to have a connected network of streets, a great building stock, and community amenities such as Monument Square, Sam Johnson Parkway, an abundance of parking ramps, and the Lake Michigan waterfront. The design concepts focused on the core of downtown, as identified early during the process by the community. The boundaries of the focus area were generally: Root River to the north, South Marquette Street to the west, the Lake Michigan waterfront to the east, and 8th Street to the south.

During the workshops, Toole Design collaborated with City staff, WisDOT representatives, civic leaders, business owners, and other community members to develop a vision to guide the design the public realm (i.e., the streets and public spaces and parking and address the public issues in downtown.

#### **The Discovery Workshop**

The first workshop commenced with a Monday evening presentation. The presentation included:

- An overview of traditional transportation principles,
- Highlights of the consultant team's walking tour of downtown Racine,
- · The benefits of a community vision,
- The general purpose of cities and downtowns (i.e., to foster social and economic exchange), and
- National best practices as they relate to one-way to twoway street restorations and revitalizing downtowns.

The meeting concluded with community members forming groups to answer the following questions about the City and the downtown:

- List key values that should shape downtown.
- What do you like and wish to preserve?
- What do you dislike and want to change?
- · What is missing that you would like to see created?

During the remainder of the first workshop, numerous stakeholders were engaged by the consultant team in small group meetings and in one-on-one meetings to understand the key drivers, opportunities, and challenges facing the downtown. A concluding Thursday evening presentation captured what was heard throughout the week. The presentation also included some "starter ideas" that were

developed during the workshop. Feedback and discussion followed the presentation.

#### **The Design Workshop**

The second workshop focused on building on the starter ideas, developing the plans and recommendations, and feedback looks with the stakeholders, agencies, and community. The workshop concluded on Thursday evening with a presentation, which included:

- Restoring the downtown one-way pairs of streets to twoway operations, along with a traffic analysis,
- Relocating the State Trunk Highway 32 to Wisconsin Avenue.
- Redesigning Main Street to be two lanes and provide bicycle lanes and on-street parking,
- Redesigning Monument Square to be more useful, flexible, and enjoyable over all four seasons,
- Altering the approach to on-street and off-street parking to encourages the use of the parking ramps for long-term parking and encourage a desirable turnover for customer parking at on-street locations,
- · A realignment of Pershing Park Drive,
- Creating a stronger relationship between Lake Michigan and the Square through design changes to 6th Street and Sam Johnson Parkway,
- Outlining the next steps.





Figure 2: Stakeholders discussing downtown opportunities during the first workshop.

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# Public Realm Plan

The public realm plan leveraged the inherent strengths of downtown Racine while correcting the weakness. The design concepts and recommendations are outlined in the following pages.







Figure 3: Images from the tour: vista through Sam Johnson Park Walkway (top left), sitting on the edge of Main Street (top right), Monument Square from 6th Street intersection(bottom).

#### **Existing Main Street**

The current configuration of Main Street is within an 80-foot-wide right-of-way. It has two southbound lanes and two northbound lanes with:

- Sidewalks on both sides of the street.
- Parallel parking on both sides of the street,
- Street trees, and
- Traffic signals at the busier intersections.



Figure 4: Existing Main Street

Through the area between 7th Street and State Street, the Main Street could carry over 30,000 cars per day but currently carries less than 10,000 cars per day. The street ought to be a 2-lane street and the unneeded two lanes results in poor driver behavior and contributes to the barrier-effect for pedestrians. To cross the street, pedestrians must wait at signal-controlled intersections, that are timed to maximize vehicle throughput. Due to the signal timing, pedestrians often must to wait a long time and, due to the light traffic volumes, cross illegally, creating a safety problem. Additionally, the ability of motorists to see the traffic signals over long distances, influences them to speed-up to they can "make the green." Many stakeholders

indicated that the combination of the factors, above, result in the street not feeling safe for pedestrians and making the downtown comfortable to cycle in. That in turn discourage people from coming downtown and has negative economic impacts on the businesses.

Based on the traffic volumes in Figure 5, Main Street be "right sized" to 2-lanes. As a result, the street will then better support the adjacent businesses by: i) encouraging motorists to behave like they are on a Main Street; ii) attracting more people to come downtown; and ii) providing a public realm that feels comfortable, provides pleasant experiences, and encourages people to spend time and walking around.

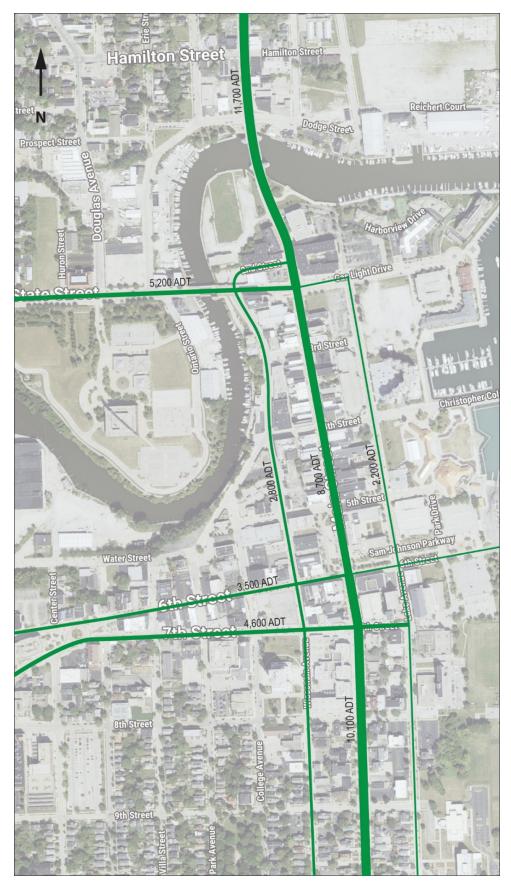


Figure 5: Average Daily Traffic Counts of primary downtown streets. They are all very low volumes.

#### **Interim Main Street (State Street to 7th Street)**

A low-build, initial street design can be achieved through restriping Main Street to two travel lanes with:

- · Parallel parking on both sides of the street,
- 6-foot protected bicycle lanes in each direction, next to the curb and separated from the parked cars by a 3-foot buffer,
- Add bulbouts mid-block and at the ends of the parking rows,
- Adjust the bulbouts and street lights to maintain safe lighting levels, and
- Replace the traffic signals with stop signs as per the traffic control recommendations.



Figure 6: Interim Main Street retrofit.

#### **Ultimate Main Street (State Street to 5th Street)**

Once funding has been allocated, Main Street can be reconstructed to two travel lanes, with:

- Parallel parking on both sides of the street.
- 5-foot protected bicycle lanes in each direction between the curb and the sidewalk.
- A 3-foot buffer/step-strip between the bike lanes and the curb/on-street parking,
- · A 1-foot buffer between the bike lanes and the sidewalk,
- A valley gutter between the parking rows and the travel lanes, and
- Bulbouts located at intersections and in locations coordinated with lighting.

Relocating the State Trunk Highway off Main Street ought to predate the ultimate Main Street reconstruction. Also, curb management should be coordinated with the businesses along Main Street and the intersecting streets. That is determining the location and timings for loading areas, pick-up and drop-off areas for ride-share services, and so forth.

Within the Monument Square block (5t Street to 6th Street) this section changes. On-street parking is eliminated on the west side and the bicycling lanes are not delineated.



Figure 7: Ultimate Main Street reconstruction.

### **State Trunk Highway Designation**

To implement the Main Street designs and create an atmosphere needed to attract people to downtown, the State Trunk Highway and truck traffic needs to move from Main Street and to a new route as indicated by the dotted line or to other alternatives developed inpartnership with WisDOT.. The City should coordinate these changes with WisDOT. Regional traffic can be rerouted to Wisconsin Avenue south of the Root River Bridge before at 2nd Street.

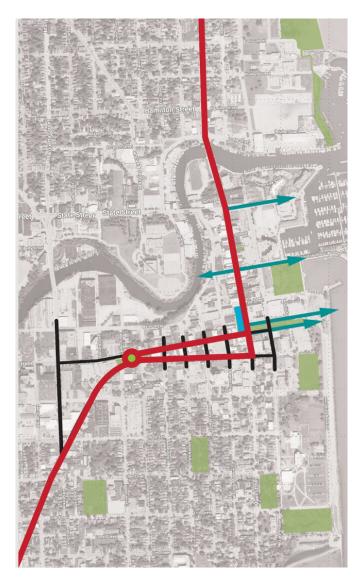


Figure 8: Current State Trunk Highway 32 along Main Street requires 6th and 7th Street to be one way in each direction.



Figure 9: A re-routed State Connecting Truck Route 32 will require minor geometric changes and returning two-way operation to downtown streets.

# 2-Way Restorations of Wisconsin Avenue, Lake Avenue, 6th Street, and 7th Street



Figure 10: Minor geometric changes may be needed at 2nd Street to relocate the State Trunk Highway to Wisconsin Avenue.

#### A Brief History of One-way and Two-way Streets

Since the founding of cities in the United States, starting in 1565 with St. Augustine, until about 50 years ago, all streets were 2-way. Of course, for thousands of years before that, paths, trails, and streets in Native American villages and along their trading routes were also 2-way. There were lots of good reasons for the 2-way operations. The most obvious reasons are the convenience of being able to go either way along a street, direct routing, and shorter trips. Such traditional reasons were not widely recognized, documented, assigned technical names, or even measured because that was just the way things were for thousands of years. The basic idea of 2-way streets was never in question. However, due to five decades of experiencing undesirable outcomes with 1-way streets, cities are rediscovering the benefits of 2-way streets.

Fast forward to 2019 and cities have been traffic calming, eliminating surplus lanes, restoring 1-way streets to 2-way, and adopting traditional measures of effectiveness to recapture traditional, city-friendly, outcomes and to advance community visions. Many cities are in the midst of this evolution presently. Not only do 2-way streets provide about double the access compared to 1-way streets, they also:

- provide direct routing/convenience for motorists, cyclists, and transit;
- result in slower and safer speeds;
- are self-enforcing (no motorists going the wrong way, less speeding, fewer bikes on sidewalks);
- provide flexibility and redundancy (which is very helpful during emergencies, special events, parades, street repair/maintenance);

- reduce sign pollution (one-way streets need more signs);
- advantage economic exchange and retailing;
- result in more intuitive way-finding;
- create a better image (two-way streets eliminate the message that throughput is more important than place, and avoid unwelcoming "do-not-enter" signs);
- result in easier and more direct bus-routing;
- provide better and additional views of buildings;
- respect the places' original intent and history;
- help crime reduction; and
- increase property values.

There is also consensus that downtowns, like Downtown Racine, would benefit by increased development (including housing), social exchange, economic exchange, local businesses, place-making, walkability, bike accommodation, transit, and so forth that are advanced by 2-way restoration.

Downtown Racine has a well-connected network of streets. In the focus area the primary streets (i.e., Main Street and 6th and 7th Streets) are under the jurisdiction of WisDOT as State Trunk Highway 32. Two generations ago, 6th and 7th Streets, like Wisconsin and Lake Avenues, were converted from 2-way to 2-way based on the values of that era that sought to move

traffic quickly with little understanding of the consequences: excessive speeds, reduced safety, difficulties for crossing the street, poor access, disinvestment, and the establishment of an uncomfortable place.

The current cross-sections of both 1-way pairs are generally consistent block-by-block in both right-of-way and curb-to-curb measurements, making 2-way restoration relatively straight forward, especially with low traffic volumes. The traffic signals along the four streets are likely unwarranted and ought to be removed and replaced with more cost-effective and pedestrian-friendly stop sign control. However, a more detail study will likely be needed. The design team recognizes that complete rebuilding these streets is likely unnecessary. Though trucks frequently used Wisconsin Avenue due to its industrial past, the structural adequacy of the street for the truck route ought to be checked.

## 6th and 7th Streets

6th and 7th Streets are the primary east-west streets in Downtown Racine. The 1-way operation only occurs from the roundabout east of City Hall to Main Street. 6th Street is currently westbound, while 7th Street is eastbound. Both streets provide on-street parking and two travel lanes.



#### **6th Street (Roundabout to Main Street)**

The current configuration of 6th Street is two westbound lanes with:

- Sidewalks on both sides of the street.
- Parallel parking on both sides of the street.

The proposed retrofit for 6th Street includes:

- Bulbouts at the intersections and midblock, where appropriate along the corridor,
- 8-foot-wide parallel parking on the both sides of the street,
- · A 21-foot travel way that includes (two-way), and
- Maintain the existing sidewalk streetscape





#### 7th Street (Roundabout to Main Street)

The current configuration of 7th Street is two eastbound lanes with:

- · Sidewalks on both sides of the street,
- · Parallel parking on both sides of the street, and
- An eastbound bicycle lane on the north side of the street.

The proposed retrofit for 7th Street includes:

- Bulbouts at the intersections and midblock, where appropriate along the corridor,
- 8-foot-wide parallel parking on both sides of the street, and
- A 22-foot travel way (2-way).





#### **Roundabout Transition**

With the return of 2-way operation along 6th and 7th Streets, the roundabout located east of City Hall will not be necessary for safety or operations. Retrofitting the roundabout into a public space will better frame City Hall and provide better access for pedestrians, walking north-south and crossing 6th and 7th Streets.

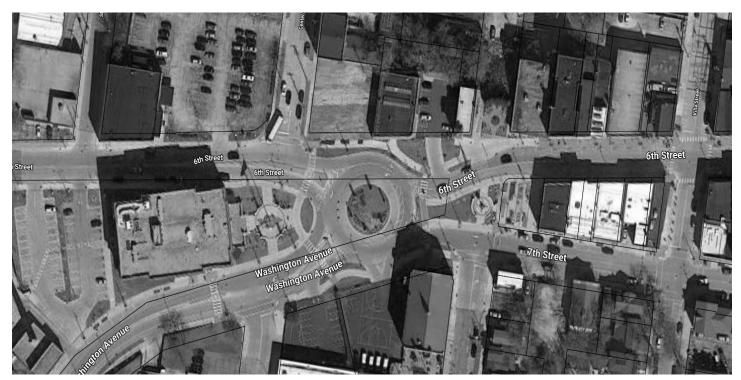


Figure 15: Existing roundabout transitioning 6th and 7th Street into a one-way pair.

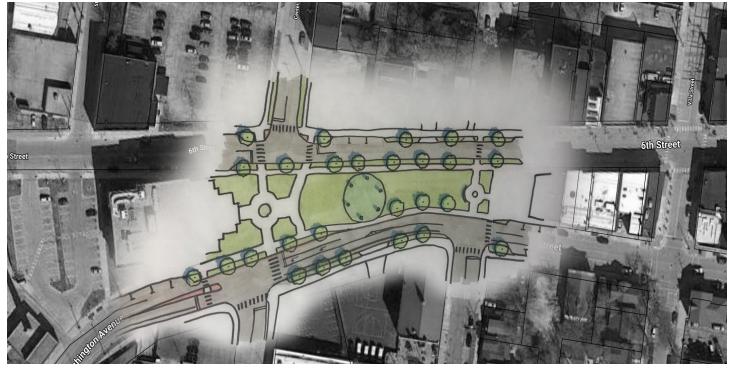


Figure 16: Simple geometric changes can transform the roundabout into an accessible public space.

# The Wisconsin and Lake Avenues Pair (Entire length of avenues)

Wisconsin and Lake Avenues are the primary north-south streets in Downtown Racine along with Main Street/
State Trunk Highway 32. Wisconsin Avenue is currently southbound, while Lake Avenue is northbound. Both streets provide on-street parking and two travel lanes.

Given the barriers formed by the Root River and Lake Michigan, this 1-way pair creates unique operational problems during large scale events that close Main Street or waterfront streets. If Main Street is closed to motorists for an event, there is no northbound option for motorists trying to get the State Trunk Highway 32 bridge over the Root River. This causes circuitous routing and lack of

access for residents and businesses located east of Main street. Two-way restoration of these avenues will alleviate this condition, result in easier way-finding, and provide redundancy during events.

#### **Wisconsin Avenue**

The current configuration of Wisconsin Avenue is two southbound lanes with:

- · Sidewalks on both sides of the street,
- Parallel parking intermittently on either side of the street depending on context, and
- Wide travel lanes.



The proposed retrofit for Wisconsin Avenue includes:

- Bulbouts at the intersections and midblock, where appropriate along the corridor,
- 18-foot head-out, angle parking on the east side of the street in the area to be re-designated as State Trunk Highway 32,
- A 28-foot travel way that includes one-travel lane in each direction, with the northbound lane being wider than the southbound lane (due to the parking),
- In areas not designated as the State Trunk Highway, 8-foot parallel parking on both sides of the street and 30-foot travel way that includes one-travel lane in each direction including 4-foot buffers on both sides of the travel way,
- · Maintain existing sidewalk streetscape, and
- Should the street ever be reconstructed then the 4-foot buffers can be added to the sidewalk dimension.



#### **Lake Avenue**

The current configuration of Lake Avenue is two northbound lanes with:

- · Sidewalks on both sides of the street,
- Parallel parking intermittently on either side of the street depending on context, and
- Wide travel lanes.

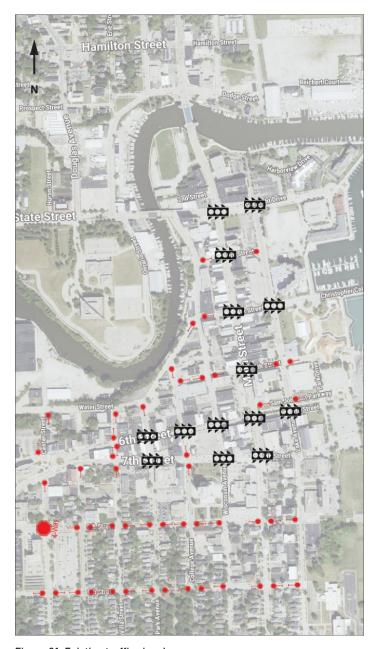
The proposed retrofit for Lake Avenue includes:

- Bulbouts at the intersections and midblock where appropriate along the corridor,
- A 32-foot travel way (2-way), including 5-foot buffers on both sides of the travel way,
- · 8-foot parallel parking on both sides of the street,
- · Maintain existing sidewalk streetscape, and
- Should the street ever be reconstructed, then the buffers can be added to the sidewalk dimension.



#### **Traffic Signals**

The restoration of 1-way streets and the low traffic volumes allows the removal of the traffic signals. 13 sets signals can be removed and replaced with 10 all-way stops and three two-way stops as illustrated. This will save significant maintenance costs, improving aesthetics, and increasing safety, improving the pedestrian environment, slow motorists to downtown-friendly speeds, and better support the downtown businesses and public spaces. A more detailed analysis is recommended to confirm and adjust these recommendations.



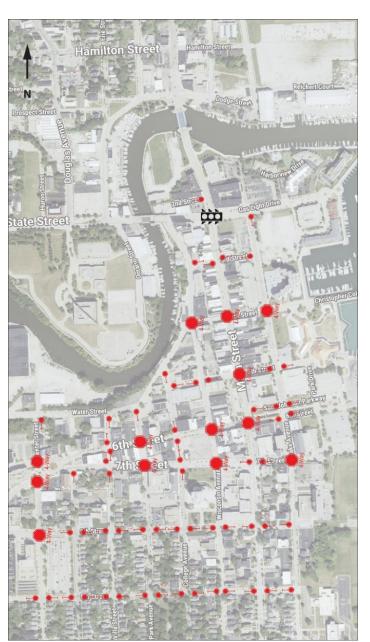


Figure 21: Existing traffic signals.

Figure 22: Stop controls after removing one-way operation.

The analyses showed that restoring a two-way street network is easily feasible given current traffic volumes. A sensitivity analysis showed that if traffic volumes were to increase in the future, there is plenty of ability to handle additional traffic. Stop sign control and no turn lanes are recommended throughout the downtown. Maintenance of the street will be easier due to the redundancy of the two-way streets. The combination of a two-way network and stop sign traffic control will result in numerous benefits in safety, access, and cost.

### **Pershing Park**

With waterfront redevelopment there is an opportunity to slightly shift Pershing Park Drive westward at 6th Street. This shift as illustrated would create more open space along the waterfront while connecting Pershing Park Drive to 5th Street providing multiple options for accessing and departing the waterfront during events. It will also allow Sam Johnson Parkway and 6th Street to achieve their potential to provide an excellent connection and views between the Monument Square and the waterfront.

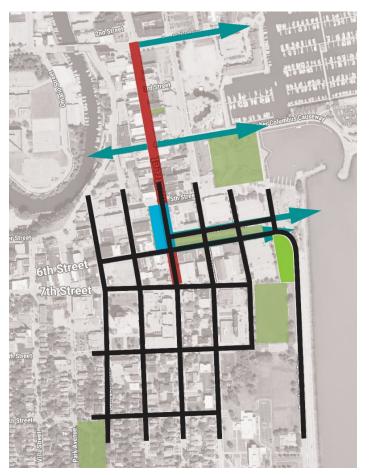


Figure 23: Existing Pershing Park Drive alignment.



Figure 24: Proposed Pershing Park Drive alignment with expanded open space.

### **Bicycle Facilities**

The City of Racine is undertaking a bicycle masterplan that will affect cycling facilities within the downtown study area. Currently, the disconnected cycling facilities are located along the Lake Michigan waterfront, along a short length of the Root River, and along Washington Avenue/7th Street. It is recommended that cycling masterplan include bike facilities along Main Street that connect to the waterfront, via 6th Street, and to the future facilities along the Root River.

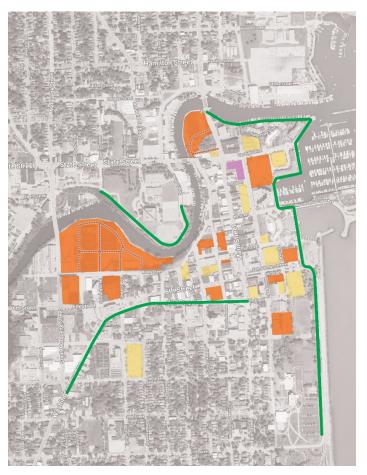


Figure 25: Current bicycling facilities near downtown.

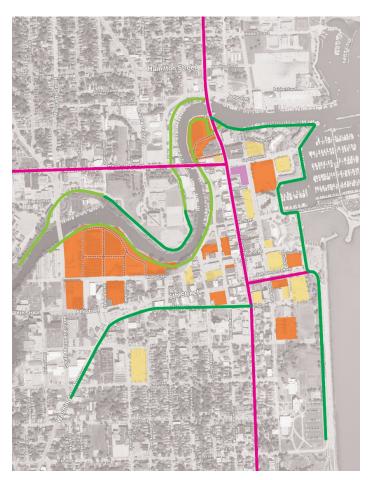


Figure 26: Proposed bicycling connections within downtown.

# O2 Parking Plan



# Introduction

After collecting parking inventory and occupancy data, reviewing the City of Racine's current parking operation, meeting with City staff and elected officials, and listening to community stakeholders while participating in the project design charrettes, Walker Consultants ("Walker") has developed implementable recommendations and provided best practices to be used as City officials consider a Downtown Public Realm and Streetscape enhancement project. Please find detailed project findings and a complete list of parking-related recommendations in the appendix of this report.

Walker, in conjunction with Toole Design, has identified two principal recommendations that are implementable in the next one to two years:

- Promote and Encourage the Use of Downtown Parking Ramps, and
- 2. Install Multi Space Meters on Main and 6th Streets in Downtown.

# **Encourage the Use of Downtown Parking Ramps**

One way for a downtown parking system to achieve an equilibrium between supply and demand is to ensure on-street parking spaces are turning over frequently and accommodating short-term users, including retail patrons and visitors to downtown. Higher turnover in on-street spaces helps increase retail foot traffic and promote a pedestrian environment in core commercial areas. Alternatively, longer-term parking is best provided in offstreet parking facilities, often found in peripheral areas one-to-three blocks from the main commercial corridor. These users may include employees or visitors to downtown who are staying for longer than two to three hours. This leaves the closest, most convenient spaces available for retail patrons and guests.

A city's downtown parking system can achieve greater equilibrium, and more efficient utilization, when a strategic pricing policy or time-limit restrictions are implemented for the on- and off-street parking assets. The policies and regulations are designed to enable the user to park in

the most appropriate location. Some cities impose higher parking fees along the key commercial corridors, with lower fees along secondary streets or at less-convenient off-street facilities. Others utilize varying time limits with active enforcement to encourage turnover. Many communities use a combination of both.

Currently, Racine has 2,015 spaces at nine primary offstreet parking facilities. Please note this figure does not include any private parking inventory or the smaller Cityoperated surface lots (located mainly west of Main Street) that are less than 35 spaces and are largely utilized for reserved parking. During the data collection process, Walker performed parking occupancy counts during a typical busy weekday (Wednesday, July 24th) and supported the data with spot checks on Wednesday and Thursday, July 31st - August 1st. Walker found that at the peak demand time of 10:00 am, 587 of 2,015 spaces were utilized, or 29 percent of the available off-street supply. Over 70 percent of this supply had available capacity. Looking specifically at the centrally located Civic Center, Lake Avenue, and Shoop Ramps, parking occupancy was still only at 40 percent (the slightly higher occupancy is mainly associated to demand at the Civic Center Ramp, which was 71 percent full). This leaves significant off-street inventory available for downtown parkers.

In order to better utilize this large off-street inventory, Walker recommends raising the parking rates on Main and 6th Streets to \$1.00 per hour. These two streets form the commercial core of downtown Racine, with the greatest active land use densities and parking demand, which warrants a slightly higher on-street rate. This would encourage some parkers to think about the cheaper alternative of parking in the ramps for the very reasonable price of \$2.00 per day, with no time limit. Keeping the secondary streets at a lower price point will allow parkers to decide to alternatively park on these streets, or at the nearby ramps, depending on their desired length of stay. This would also help free some space on the highly utilized blocks of Main and 6th Streets, particularly north of 5th on Main and east of Park on 6th.

Walker also recommends that the City explore a Pilot Program of offering free parking at the Lake Avenue Ramp

Figure 27: Special Parking Rate Advertisement





Figure 28: Public Parking and Wayfinding Signage in Holland, MI



Figure 29: Current Wayfinding Signage

on weekends during the summer. The program could be advertised as a special weekend rate. Walker recommends free parking begin at 5:00 pm on Friday, extending through 5:00 am on Monday, May 1st through September 30th. This would help promote the usefulness of the ramps and could begin to change the way of thinking when it comes to parking in downtown Racine. The City already provides a version of this by offering a night rate at the Civic Center Ramp for \$1.00 (in after 5:00 pm, out before 5:00 am). This encourages use of the ramp during off-peak hours and caters to visitors who want to enjoy an evening out downtown and along the lakefront. This also helps foster a "park once" environment, where the retail patron or visitor parks once and spends more time walking and perusing retail stores or enjoying the lakefront, and less time in their vehicles. Additionally, this would provide a good alternative for downtown employees who work weekends.

Another opportunity to consider is changing the on-street angled spaces at Monument Square to two-hour parking. Walker understands the City recently switched from two-hour to four-hour parking in downtown, but we believe the turnover needed at this central location would benefit from two-hour parking. The central core of the downtown commercial district should see the most vehicular parking, and this would allow access for a greater amount of people to Monument Square.

The City should also expand on its downtown wayfinding program. Many of the downtown wayfinding maps already include walking distance rings. The City's parking website and Downtown Racine Corporation website should also include this map, with off-street public parking locations clearly highlighted. This would help the City promote the rather short walking distances between Main Street and the parking ramps. Any new public parking signage should be consistent with the City's wayfinding signage that is already in place. It should also be in line with the City's overall branding strategy. Holland, Michigan, for example has a clear and visible public parking signage package that provides wayfinding directions, has simple but effective surface lot designations, and aligns with the City-wide brand. Racine's wayfinding program could highlight the fact that a 1,200-foot walking distance is roughly 2.5 city blocks, or roughly the length of the interior of the suburban Regency Mall, as shown in the following exhibits. Promoting a positive walking environment downtown will aide in changing the perception of inconvenient off-street parking locations.

Many stakeholders shared their opinion that parking in the ramps is too far away or unsafe. By implementing these recommendations, the City can help change this perception and allow the public to utilize this abundant and convenient off-street parking supply.



Figure 30: Walking distance between anchor stores in a mall are often more than 1200 linear feet.

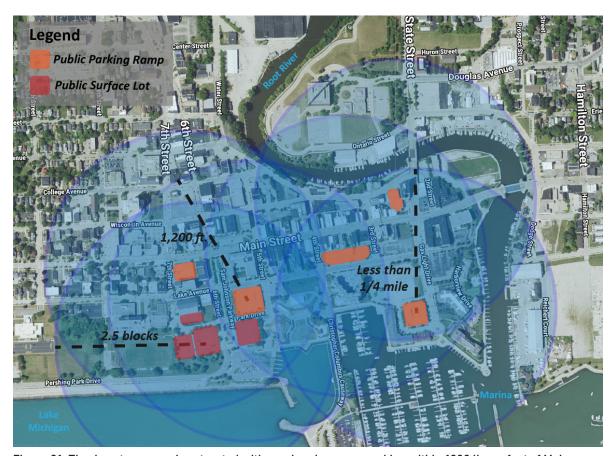


Figure 31: The downtown area is saturated with overlapping ramp parking within 1200 linear feet of Main Street and 6th Street.

# **Downtown Multi-space Meters**

The City currently operates approximately 856 single-space on-street meters in the downtown area. The meters accept coins only, and the rate is \$0.65 per hour. Patrons may use the Passport mobile application to pay for on-street parking. However, mobile app-based payments currently account for less than 20% of overall meter payments. Walker recommends that the City switch to multi-space meters, and alter the operating model of the mobile payment system to simplify operations as well as the patron experience. Walker recommends that the City adopt "pay-by-plate" meter technology. In this model, patrons will park their car and pay for parking either via the mobile app or at a multispace meter located on the block. If they choose to pay at the meter, they will enter their license plate number at the meter, select the duration of time to pay for and make a payment. Walker recommends that receipts not be printed, but emailed or text messaged to the patron. This service feature eliminates moving parts inside of the meters, and therefore reduces maintenance requirements, as well as wear on the unit, and it decreases power usage. Please note that the machines can be specified to have receipt printers if the City would like to pursue this.



Figure 32: Pay-by-Plate Multi-Space Meter



Figure 33: Proposed Multi-Space Meter Locations

The meters would likely be placed one per block, along Main Street and 6th Street. The cost range for meters of this type is between \$8,000 and \$16,000 per meter depending on payment methods accepted and additional features. The meters are most typically battery-powered and use cellular devices to communicate. Walker estimates 24 total multispace meters are required for the downtown area along Main and 6th Streets. Shown in the following Exhibit is a conceptual layout of where the multi-space meters could be located. Removal costs of the existing single-space meters will vary considerably depending on the new concrete patch that may be required, with costs ranging from \$100 to \$1,500 per meter. Twenty-four blocks of single-space meters would need to be removed based on the conceptual installation plan.

Currently, the existing mobile app, Passport, allows patrons to pay by space number, which is provided in the form of a sticker placed on each meter. Walker recommends that the mobile app operating model also switch to "pay-by-plate" to match the new meter methodology. In this methodology, patrons would register their vehicles with the app, providing the license plate for each vehicle they register. After parking, the patron would select the vehicle they are parking with (if they have multiple vehicles on their profile), optionally select the zone, select the time to purchase, and complete their transaction. Patrons may be able to complete this process before leaving their car, depending on if zones are used and the on-street signage developed for these zones. There should be little to no cost to change the mobile app operating methodology to pay-by-plate. However, additional signage would be recommended to provide an enhanced and convenient customer experience.

Converting both the meters and app-based payments to "pay-by-plate" provides an advantage to the City in the form of simplified enforcement of on-street parking violations. Since all vehicles parked on the street have their payments tied to a license plate, enforcement can be completed exclusively using mobile License Plate Recognition (LPR) equipment. Walker understands that the City has already purchased a mobile LPR system. This system may be able to be modified to accept payment/license plate data from both the new meters and the mobile app. After the two payment technologies have been integrated with the existing (or new, if an additional system is required) mobile LPR system, the enforcement operation will be as simple as driving the streets and issuing tickets through the



Figure 34: Mobile LPR Hardware

software when a violation is detected. The citations can be mailed to the violating vehicle owners automatically. If the violating vehicle is tied to a mobile app account, the citation can be paid through the app. This enforcement model should be significantly faster than an on-foot approach to enforcement. Potential issues with the technology that may require limited manual or on-foot enforcement include vehicles parking too close to each other, and heavy snowfall that obscures license plates. Should the mobile LPR system require replacement, Walker estimates the cost to be between \$30,000 and \$50,000.

# **Guidance, Wayfinding, and Analytics**

If the City were to elect to procure and install some level of Automated Parking Guidance System (APGS) for the parking ramps, the downtown static signage and wayfinding system could be enhanced through digital signage directing patrons to the ramps with available capacity. Signs could be attached to other visual or navigational elements at key roadway decision points, such as the intersection of Main and 6th Streets. Additionally, electronic signage could be placed near the entry points of the ramps to communicate the location of the parking facility nearest the final destination. Combined with the recommendations discussed earlier, this would help to balance the parking demand between on-street and off-street facilities.

With the addition of accurate occupancy data, the City could provide greater decision-making capabilities to parking patrons, and potentially offer pre-booking services for event parking. Patrons can decide where to park in advance of their trip, instead of searching near their destination, adding to traffic and congestion. Additionally, shared usage between different groups of parkers becomes more easily implementable. Data could even be combined within a greater transportation and mobility app, potentially tying in with Racine Transit arrival time and route information, ride, bike, and scooter-share services, and information about bike routes and multi-use trails.

An additional benefit to collecting detailed occupancy information is the ability to capture data and develop data analytics. The City would have access to detailed occupancy information, provided on an hour-by-hour basis that can be used in conjunction with revenue data to plan staffing and enforcement hours, perform financial modeling related to parking rates, plan for expansion of ramps or building new ramps, and/or the removal of parking inventory. The data can help to determine the potential future benefits resulting from, for example, change in the allocation of parking between uses, the rate differential between on and off-street, and even potential rate differential between off-street ramps. The reporting could be provided by an APGS vendor, the City's business intelligence staff, or a third-party firm specializing in business intelligence and analytics.

# Single-Space vs. Multi-Space Meter Cost Comparison

Walker was asked to prepare a preliminary revenue/
cost comparison between the City's current single-space
meters and potential multi-space meters. Please note this
cost estimation is preliminary in nature and would require
further study to determine actual cost versus revenue
impacts. Please also note this assumes a Multi-Space Meter
(MSM) cost of \$10,000 per meter. This is at the lower end
of the cost range (generally \$8,000-\$16,000 per meter).
More customer service features may be included with each
meter, pushing the cost up. This conceptual cost does not
include installation or power expenses. Ultimately the cost
is variable and dependent upon the procurement process
(Walker recommends a competitive bid process) and total
number of units ordered.



Figure 35: Sample Signage

	Single-Space Meter (SSM)	Multi-Space Meter (MSM)
Annual Revenue, per Meter	\$400	\$4,800
Pay-Off Time (Years)		2.08

#### Assumptions:

- 1. Eight (8) SSM's per block.
- 2. \$1.00/hour in revenue collected for eight (8) hours per
- 3. Revenue collected 50 weeks per year.
- 4. Twelve (12) SSM's for every one MSM.
- 5. Cost of one (1) MSM is \$10,000

Source: City of Racine, Walker Consultants, 2019

Figure 36: Single-Space vs. Multi-Space Meter Cost Comparison

## **Civic Center Ramp Analysis**

A 174-room Sheraton Hotel is proposed for the parcel immediately south of Festival Hall, which is currently the Festival Hall surface lot. Additionally, a 10,000 square foot expansion of Festival Hall is proposed as part of the hotel development.

As part of the proposed development agreement, the hotel developer has requested the use of 200 spaces at the Civic Center Ramp, located immediately to the west across Festival Park Drive. It is yet to be determined if the 200 spaces will be of shared use, or if they will be nested and 100 percent controlled for the use of the new hotel and conference center. The spaces are proposed to be a mix of self- and valet-parking. Walker has provided analyses and recommendations for both operational scenarios:

## **Shared-Use Spaces**

Assuming the hotel has an 80 percent room occupancy rate during the week, with, on average, one parked vehicle per room, there will be 139 parked vehicles associated with the hotel. Further, assuming a transportation mode split adjustment of 80 percent (20 percent arrive to the site via carpool, taxi, Uber/Lyft, or are already parked elsewhere in Racine), this equates to 111 parked vehicles associated with the hotel. When added to the observed 10:00 am peak parking demand on a weekday of 308 vehicles, this leaves an 18-space adequacy (Civic Center Ramp capacity of 437 spaces - (308+111). Furthermore, this assumes that all 111 parkers associated with the hotel will park in the Civic Center Ramp. With the 129-space Lakefront Lot located directly across the street from the main entrance of the proposed hotel, it can be assumed that some parkers will park there, especially with a less expensive rate (\$2.00 per day versus the proposed \$7.50 per day at the Civic Center Ramp).

Walker understands there are 428 monthly parkers (including 301 from Johnson Financial Group) with access to the Civic Center Ramp. The industry average show-up rate for monthly employee parkers is 70-80 percent (employees may work from home, may travel for work, may be sick or on vacation). Seventy-five percent of 428 is 321 vehicles, which is slightly higher than the 308 observed during Walker's site visits. Walker acknowledges the Civic Center Ramp could reach capacity on Thursday and

Friday evenings (particularly during special events with an increase in transient parkers), in which case some parkers may have to utilize the Lakefront Lot, and/or the Lake Avenue Ramp. In this scenario, the Civic Center Ramp could operate similarly to how the Gaslight Ramp is currently operated, with partially-validated tickets pre-printed by the hotel for guest use. There would also be an option for hotel guests to park as a transient parker and pay the normal self-park rate.

## **Nested/Reserved Spaces**

If the intent is for the 200 reserved spaces for hotel parking to be dedicated rather than shared, Walker suggests that the 5th Street entry and exit plaza be dedicated for hotel usage, allowing guests to enter and exit with a proximity card room key. The existing entry station can be re-programmed to no longer issue tickets, and require a hotel proximity card to enter and exit. At some point between the 2nd and 3rd levels, a physical barricade will need to be installed to prevent encroachment by hotel guests to the non-hotel portion of the garage, and vice versa (nesting). All other patrons of the garage will enter and exit the garage through the Lake Avenue entry/exit plaza. In the event that the City proceeds with this operating model, Walker recommends that signage for the garage be revised to clearly display the usage of the two entry/exit plazas and direct patrons to the appropriate plaza. This plan also requires all hotel guests to use a room key card to access the parking. Guests who have not yet checked in and do not have a room key will need to find another place to park while they check in. The hotel may be developed with a Porte Cochere which will allow for temporary parking during check-in. Additionally, the City may elect to provide some number of hotel spaces as temporary check-in spaces that are accessible via the Lakefront Lot or Civic Center Lake Street entry/exit plaza, with validation provided by the hotel.

Should the City/development team choose a fully reserved scenario, some monthly parkers will need to be moved to either the McMynn or Lake Avenue Ramps, or the Lakefront surface lot. In order to better utilize the existing parking assets, Walker recommends the City/development team utilize the shared parking option instead of the fully reserved space scenario.



# Monument Square Design



# **Monument Square Design**

Monument Square was originally known as Haymarket Square when it was built in the 1800s. It was the place where farmers purchased hay for their horses in Racine. In 1881, the town's people funded the veteran's monument and the site was renamed Monument Square on Independence Day, 1884 when the Civil War monument was unveiled. The 140-ton monument is the focal point of the square that is bounded by 5th Street to the north, Main Street to the east, 6th Street to the south, and buildings along to the west (whose backs face Wisconsin Avenue). The square has gone through several iterations including a design by the renowned landscape architect, Jens Jensen.

As the age of the automobile reshaped cities and development across North America, businesses and people departed Racine's downtown and the square lost its prominence for several decades. Now, with the renaissance of Racine's downtown, City officials and the business community engaged Toole Design to reinvigorate the square. The new concept plan creates a large civic plaza that removes the vertical curbs between street edges and gathering space to provide a flexible condition that can respond to various sizes of events. For example, during events, one or more streets can be closed to motorists so that the plaza space can increased for very large numbers of people in a barrier-free space. On typical days, the plaza space itself provides for a variety of users' needs including hard and soft spaces, a splash pad, seating and dining areas, and shade trees. The completely accessible plaza will be the central public space for Racine.

#### **Observations**

Racine stakeholders expressed enthusiasm for the existing functions of Monument Square but recognized that the square and its functionality could be improved to better provide for the needs of a thriving downtown. A summary of stakeholders' main observations included:

- A desire to retain parking along the western edge of the square to serve adjacent businesses,
- The speed of vehicles on adjacent streets made the square feel inaccessible and unsafe,
- The proportion of hard paved areas to soft landscape areas was useful during large scale events but not inviting to smaller scale activities throughout the year,
- The monument should remain in its historic location,
- Shade would make the square more inviting during summer days, and
- A farmers' market could return a historic use and reactivate the square.

The Toole Design team also observed:

- The plaza space was relatively small,
- The plaza and adjacent streets are closed off to motorists during large events like the 4th of July, Holiday Party, and St. Patrick's Day,
- A fixed stage location could not account for all potential entertainment formats so the flexibility to set-up different stage sizes in multiple configurations and locations is important,
- The street curbs made the space inaccessible for people with limited mobility and those that use mobility aids,
- The square does not connect well the Sam Johnson Park Walkway and the vistas to Lake Michigan,
- The square does not support or leverage the business uses along the western edge of the square with uses like patio seating, an additional splash pad, and restroom facilities.
- The streets act like barriers around the square due to their width, the traffic signals, and poor driver behavior; and
- Regional and local bicycling facilities are disconnected from the square.

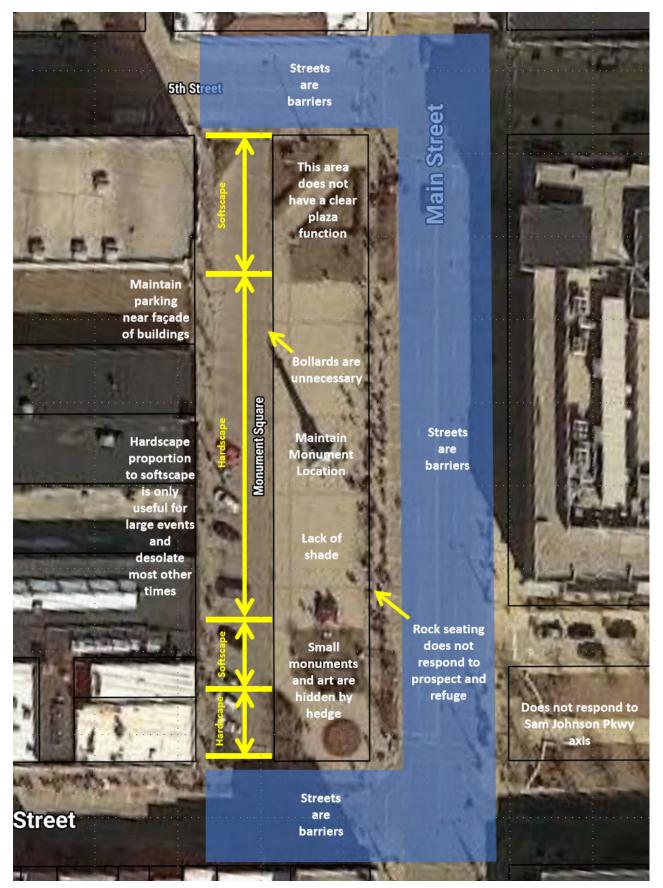


Figure 37: Simple Monument Square observations from stakeholders and the Toole Design team.

### **Function**

Based on these observations, the Toole
Design team developed a functional
approach to the square layout by
considering the entire space from
building façade to building façade as the
square-including the adjacent streets.
This approach necessitates flush curbs
around the square, allowing for universal
access of the space during large events
but still allow for motorists to travel
through the area at other times.

Universal access, comfort, usable and flexible space, business-friendliness, walkability, and views were the major design objectives, expressed by the community for the heart of downtown. To advance those objectives, several design elements were recommended, including:

- · Flush curbs surrounding the square,
- Streets that are usable and flexible, as needed for various events,
- Connecting downtown to the regional bicycle network,
- Bulbouts at the corners of the intersections to self-enforce parking regulations and to shorten crossing distances for pedestrians;
- Protect and enhance the view corridors along Sam Johnson Park Walkway to the splash fountain and 6th Street.

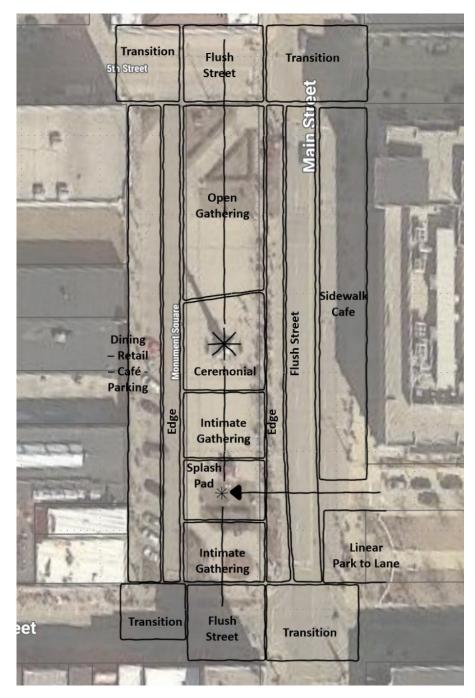


Figure 38: The functional areas that shaped the concept plan from Toole Design.

# **Monument Square Concept**

From the functional areas diagram, we evolved the design that eliminates perpendicular parking in favor of parallel parking on the western edge of the square and includes the area liberated by the right sizing of Main Street to two lanes with parking on the east side only. This allows the open space in the square to increase in size.

We recommend the creation of several spaces, framed by shade trees, including a dining/game table area on the south end of the square. It accommodates movable furniture for public use and serves as a refuge for parents watching their children using the proposed splash pad. Next, the monument, which remains in place, are a small lawn to the south and a grand lawn to the north. These spaces accommodate events of varying sizes or can be combined during larger events. The surrounding streets include flush curbs so that the event space can include one or more streets such that they are accessible during large events.

Care should be taken to place new street trees so that they do not obstruct potential stage locations, in the cardinal directions for concerts, jazz festivals, etc., on the streets and within the plaza space. Notice the street trees on the plaza sides of the streets have been arranged to leave an opening for viewing purposes. In-street and in-ground handholes and conduits with electric power should be placed in any likely location for a stage. Potable water spigots, drains, and electric services should be located where food trucks operators or other temporary users might need them. This eliminates the food truck operators from running noisy generators, which spoils the ambiance during events. Finally, small parts of the open spaces should be available for areas informal gatherings (e.g., a place with movable chairs, tables, and umbrellas), chess boards with human-sized pieces, art installations with seating, etc., that allows for large events. Public restrooms that can be accessed easily will be required with the introduction of the splash pad and as a comfort facility for families enjoying the Square. Two locations for consideration would be as part of the proposed hotel at the north west corner of the square or in one of the spaces in the 524 Monument Square building.

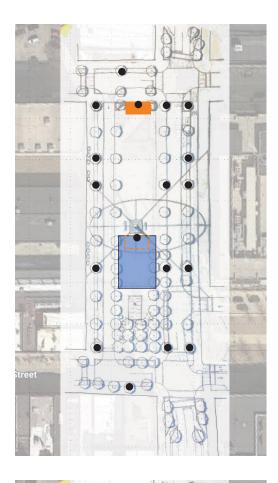




Figure 39: The Monument Square concept as developed during the charrette is simple yet responsive to the context and potential uses. This design has evolved since the charrette and the revised design appears later in this document.



Figure 40: (Left) Pedestrian circulation remains unchanged during normal operations; (middle) new bicycling routing; and (right) new vehicle circulation requires 6th Street to return to 2-way operations, the travel-way direction adjacent to the buildings on the western edge to change directions and for 6th Street, east of Main Street to contain Sam Johnson Park Walkway as a median.



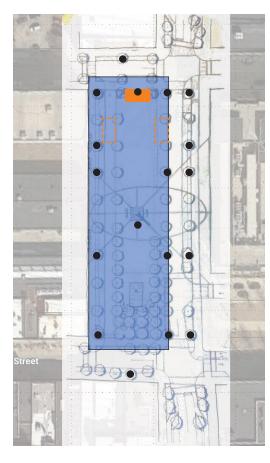
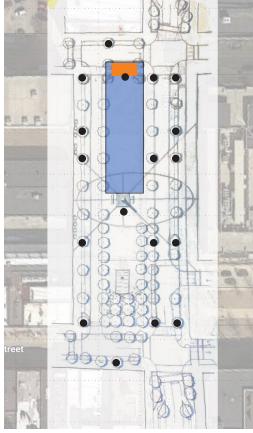


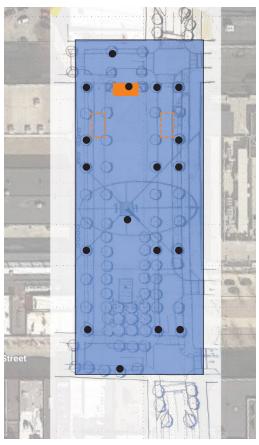
Figure 41: Monument Square can accommodate multiple sized events including (upper left) an intimate gathering; (lower left) a medium sized event; (upper right) a large event; or (lower right) a large scale event that closes all streets within the square. These spaces allow for modular stages to be set up in any location based on specific event needs.

Potential Moveable Stage Location



Event Power Outlet Location





Based on the analysis of the current Monument Square and stakeholder insight, the design team drew inspiration from other successful places through a search of comparable images that demonstrate the potential for activities in the new Monument Square.



Figure 42: Small and large lawn areas can accommodate informal moments through movable furniture that allows people to sit in the shade on a sunny day or in the sunshine during spring and autumn. (Photo source: unknown)



Figure 43: Lawn spaces also support programed activities throughout the year. (Photo source: unknown)



Figure 44: Paved plaza areas with movable furniture permit informal seating for people watching or dining. (Photo source: unknown)



Figure 45: Paved areas surrounding the plaza and lawns can accommodate food trucks and other vehicles to serve special events. (Photo source: unknown)



Figure 46: Farmers' Market stalls can be located along surrounding drive aisles to reduce wear on the lawns. (Photo source: unknown)



Figure 47: Night time activities, such as movies on the square, can be programmed at different scales. Modular stages and screens allow for multiple locations to stage shows for maximum flexibility. (Photo source: Cindy Rolles)



Figure 48: Carefully considered lighting elevates the potential of nighttime activities while following "dark skies" principles to reduce impacts to migratory birds following the Great Lakes. (Photo source: Cindy Rolles)



Figure 49: A splash pad brings children and their parents to the square and animates surrounding businesses.(photo source: City of Sulphur Springs, TX)

Temporal and seasonal uses can be programed to expand the Use of Monument Square. The splash pad can be used for staging the holiday tree and then converted to a winter play area for children after the holidays. The lawn areas provide ample space for ice skating resulting from wintry weather or aided and prolonged through refrigeration infrastructure concealed underground.



Figure 50: The splash pad can be used for the holiday tree while the surrounding plaza functions as a winter market space. The splash pad could also house a winter play structure after the holidays. (Photo source: unknown)



Figure 51: The expanded open lawn areas can support ice skating naturally through the winter weather permitting or enhanced through underground refrigeration.

Based on feedback from City of Racine, the Monument Square design developed during the charrettes was modified in two ways as shown in the final conceptual plan:

- The dedicated bicycle facility in the square was removed noting that all vehicles in the square must be conscious the pedestrians within the curbless street area.
- Three parallel parking spaces along the north west corner of the square were removed as per the development agreement with the adjacent hotel owner.

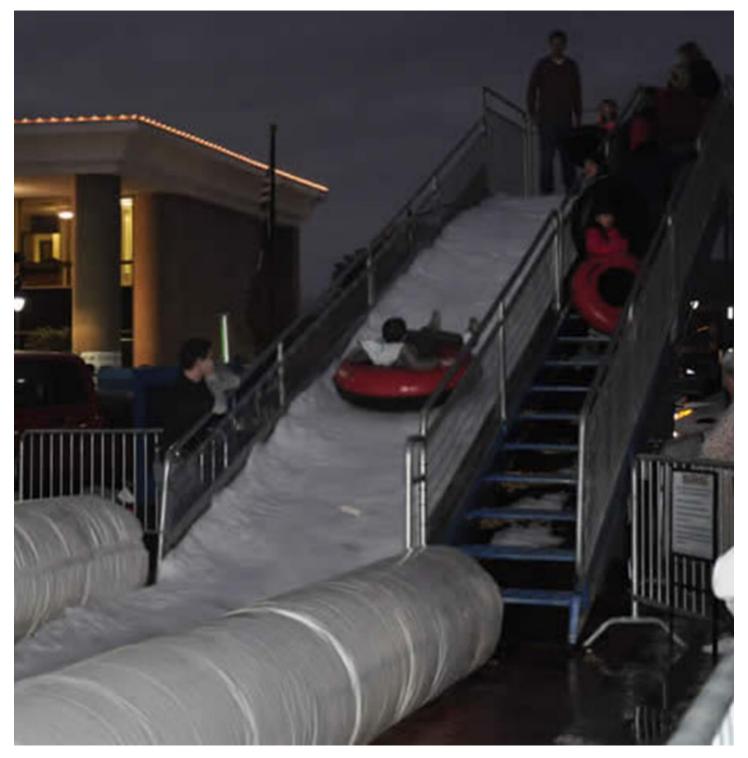


Figure 52: The square can be used throughout the year with programming such as this winter tubing course set-up in Celebration Square in Sulphur Springs, TX.



Figure 53: The final conceptual plan for Monument Square based on the charrettes and City comments.

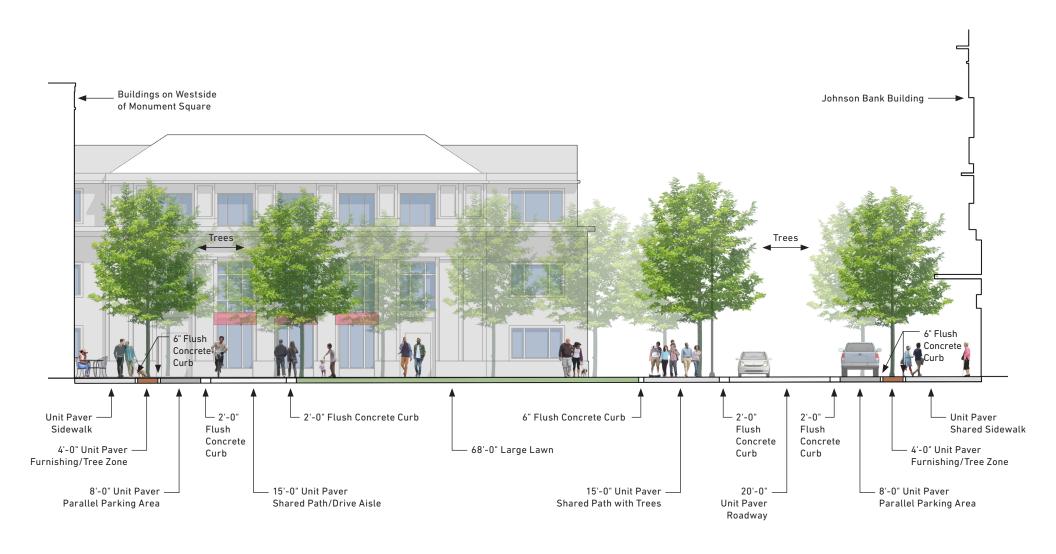


Figure 54: Section A



Figure 55: Aerial view looking toward the northwest from the southeast corner of the new curbless Main Street and Monument Square.



Figure 56: Children enjoying the lawn and splash pad in the Square.



Figure 57: The parking aisle on the west side of the Square provides space for food trucks and farmers' markets.



Figure 58: The open lawns and paved area around the monument provide ample space for different sizes of formal and informal events.

## **Next Steps**

Consensus for positive change within the community was strong at the end of the second workshop. That energy should continue to grow as the City and State move forward with the next steps. The following next steps should be explored to keep the momentum going:

- Adopt the Racine Downtown Public Realm and Parking Plan,
- Form a Downtown Racine Steering Committee.
- Promote and encourage the use of downtown parking ramps,
- Transition to multi-space meters throughout downtown,
- Update the bicycle masterplan to include the recommendations from his study,
- Restore Lake and Wisconsin Avenues to 2-way operations,

- Move the State Trunk Highway 32/20 to Wisconsin Avenue and off of 6th Street,
- Restore 2-way operations on 6th and 7th Streets,
- · Right size Main Street,
- Advance Monument Square design and construct the project, and
- Establish the 6th Street Bicycle Lanes East
  of Main Street connection to Pershing Park
  through policy and development means
  and create a strong relationship between
  the square and the waterfront via Sam
  Johnson parkway and 6th Street.



