

DESIGN IMPACT ANALYSIS

PROPOSED DEVELOPMENT

King Street - Gore Park Condos
Hamilton, Ontario

KNYMH File # 23019

Prepared by:
KNYMH INC.

Date: July 23, 2026

DESIGN IMPACT ANALYSIS

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2.0	2026.07.23	ISSUED: Initial report	0911.251
1.0	2023.09.11	ISSUED: Initial Report	0911.247

DISCLAIMER:

The Design Impact Analysis involves subjective analysis and exploration of design concepts and their potential impact. The interpretations, opinions, and conclusions presented within the report are subjective and based on individual perspectives. They do not represent universally accepted design principles or practices.

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SECTION 1.0 - DESIGN OBJECTIVE

The objective of this report is to analyse the impact of a proposed development upon the adjacent properties, streets, and public spaces at the above noted location. We will discuss and comment upon the impact associated with the architectural form and massing of the proposed development upon the adjacent properties.

The main goals of the design impact analysis are:

- 1) Assess and quantify the potential impacts on the surrounding environment and stakeholders, such as residents, businesses, and public spaces.
- 2) Identify potential conflicts or concerns and inform design strategies to mitigate the impact effectively.

SECTION 2.0 - DESIGN EVALUATION METHODS

The graphic analysis which we present within this report is developed using computer generated modelling software in conjunction with satellite imagery and survey information.

North Orientation: The satellite images are aligned with True North using a variant of the original Mercator projection that is oriented along the Earth's polar axis, and the massing model is centred upon the UTM Grid North at the latitude and longitude specified. We have provided graphics along with a Site Plan and Satellite imagery of the surrounding area.

SECTION 3.0 - SITE CONTEXT

Location: Hamilton, Ontario, Canada

Geographic Coordinates:

Latitude: 43.206386 N

Longitude: 79.896129 W

SITE

The property is located in Hamilton, Ontario, and is situated on King Street East between James Street South and Hughson Street South, fronting on to Gore Park.

The subject land is a combination of two full lots and part of a third (lots 13, 14, part of 15, George Hamilton survey registered plan No. 1431), currently zoned as 'D2' Downtown Mixed Use - Pedestrian Focus, and features an existing 10 storey building that will be included as part of the proposed development. The combined area is 0.257 hectares (2,570 sq.m.)

Neighbouring properties include:

3.1) TO THE NORTH IMMEDIATELY ADJACENT (Study Area 1): The property faces directly onto Gore Park between James St. N and John St. S, land that is designated under Volume 2, Chapter B of the Hamilton Secondary Plan (6.1.4.37) as a primary gathering space in downtown Hamilton.

3.2) TO THE NORTH (Study Area 2): North from Gore Park on King Street the blocks are comprised primarily of three (3) to five (5) storey mixed use buildings zoned as 'D2'. Also to the north along Hughson St N and King William St there is a pair of thirty (30) storey residential towers (King William Urban Rentals) on a four (4) storey podium, currently zoned as 'D2' - Exception 626.

3.3) TO THE EAST (Study Area 3): The blocks to the East of the subject property are primarily zoned as 'D2' - Downtown Mixed Use - Pedestrian Focus with parts of the blocks facing Main Street partially zoned as 'D1' - Downtown Central Business District. The blocks are comprised of a mix of commercial, institutional, and residential buildings of various heights, and with large parking lots in the block interiors.

3.4) TO THE WEST (Study Area 4): To the west of Gore Park the blocks are mostly zoned 'D2' and contain tall commercial buildings, parking lots, and the raised pedestrian plaza of Jackson Square.

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TOPOGRAPHY

The subject lands and neighbouring parcels appear to be generally uniform in grade with no meaningful elevation changes. For the purpose of this analysis the proposed development and adjacent properties are represented at the same elevation.

ARCHITECTURAL FORM

The proposed development labelled as building 'A' consists of one (1) building upon the subject lands. The proposed building is comprised of an existing ten (10) storey office building to be converted into residential use, situated at the eastern-most part of the property on the corner of Hughson Street South and King Street East. The conversion includes a new two (2) storey addition above the existing roof and set back from the street. The western extent of the proposed building is a new twelve (12) storey residential building with its tallest massing set back considerably from the street to the North. This new building incorporates reduced height and massing of five (5) storeys at the property line to match the surrounding street context.

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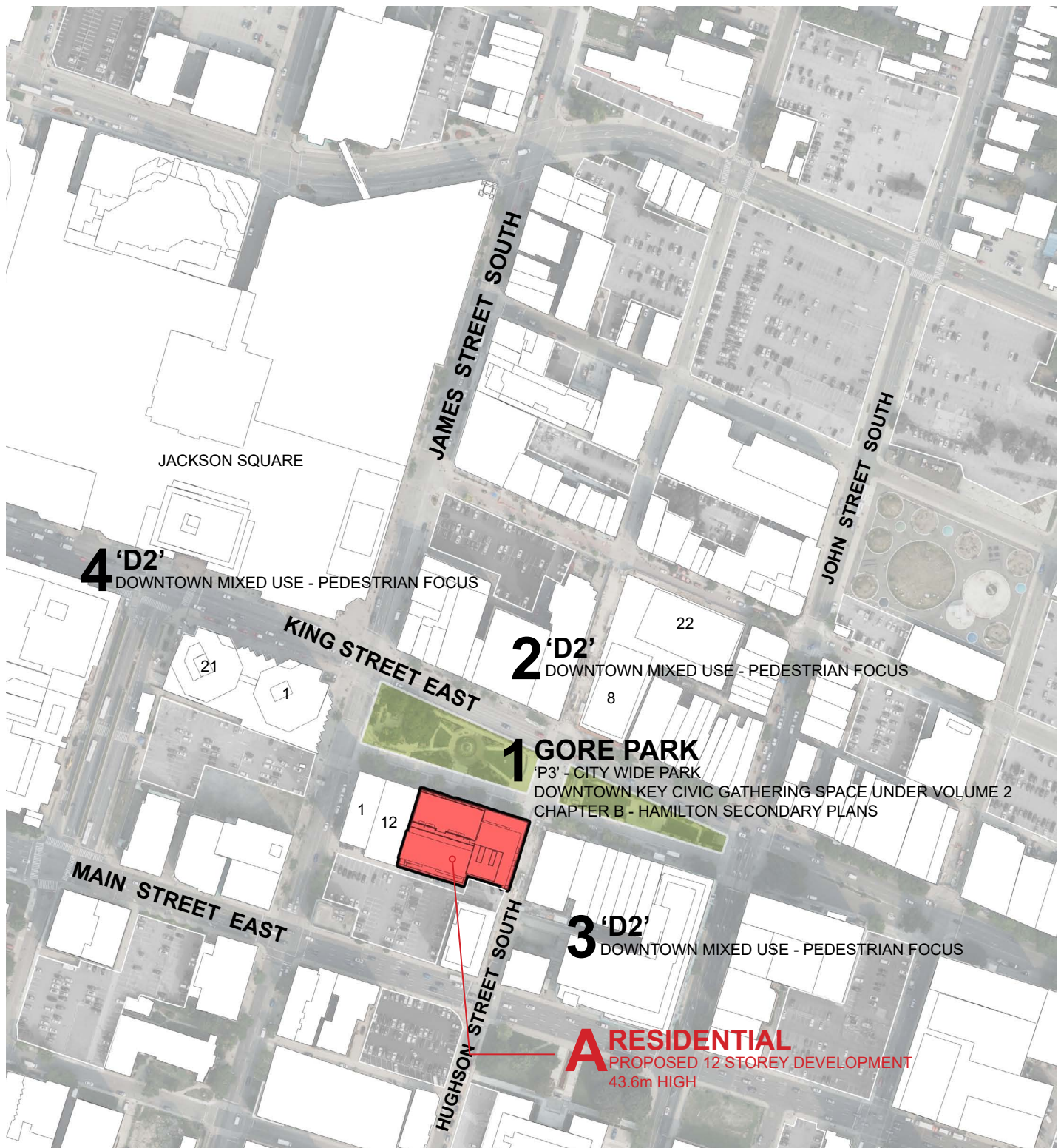


FIGURE 3.1 - SITE CONTEXT MAP

Latitude: 43.206386 N, Longitude: 79.896129 W



SECTION 4.0 - METHOD OF ANALYSIS

Shadow Impact

Geographic Coordinates: Latitude: 43.206386 N, Longitude: 79.896129 W

Standard Time: UTC -5:00

Daylight Savings Time: UTC -4:00

Test Dates and Times: Refer to "APPENDIX 1.0 - SHADOW IMPACT SCHEDULE" on page A1-1

Show a shadow study of the proposed development on the surrounding areas as compared to the existing built form and building height permitted as of right by zoning bylaw. Further analysis is performed under the guidelines found in 'Sun/Shadow Study – Development Application Guidelines' developed by the City of Hamilton [v.Feb,2026]

SECTION 4.1 - IMPACT ASSESSMENT CRITERIA

The graphic analysis and impact assessment which we present within this report is developed with the following criteria specified in the:

'*Sun/Shadow Study – Development Application Guidelines*' developed by the City of Hamilton [v.Feb,2026] and 'Volume 2, Chapter B - Hamilton Secondary Plan' developed by the City of Hamilton [v.Feb,2026]

A. PUBLIC REALM

This category includes public sidewalks, streetscapes, and public spaces in the boulevard that include patios, sitting areas, turf areas, planting areas and other public realm programs.

1. Shadows from a proposed development shall allow for a minimum of 5 hours of continuous sunlight per day on June 21, March 21, September 21.

B. PUBLIC SPACES AND COMMON AMMENITY AREAS

This category includes public plazas, parks, open spaces, school yards, playgrounds, privately-owned publicly accessible spaces, and common amenity areas that are proposed on-site and exist off-site.

1. Shadows impacts from the proposed development shall allow for a minimum of 50% sun coverage in all test times, as measured on June 21 and March 21, September 21; and
2. Shadow impacts from proposed developments shall not exceed 3 consecutive hours in duration on any portion of the park on June 21 and March 21, September 21.

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C. RESIDENTIAL PRIVATE OUTDOOR AMENITY SPACES

1. Shadow impacts from proposed developments shall not exceed 2 consecutive hours in duration on areas such as private rear yards, gardens, decks, and patios of surrounding residential dwellings on June 21 and March 21 / September 21.
2. Where shadows already exist on the private amenity space new shadows shall not result in less than 3 hours of direct sunlight. Where less than 3 hours of sunlight already exist on the private amenity space no new shade may be added.

D. DOWNTOWN HAMILTON SECONDARY PLAN

1. Development shall not cast any net new shadow between 10:00 a.m. and 4:00 p.m. as measured from March 21st to September 21st on [the following] parks, squares, plazas and open spaces areas that serve as Downtown's key civic gathering spaces. Gore Park is the only site applicable under this guideline.
2. Proposed development shall allow for a minimum of 50% cumulative sun coverage as measured on March 21st to September 21st on public plazas, existing and planned parks, and open spaces, school yards, and playgrounds.

SECTION 5.0 - GENERAL OBERVATIONS

SECTION 5.1 - SHADOW IMPACT ANALYSIS

A summary of the shadow effect of the proposal upon the surrounding area. This commentary will discuss the impact of the proposed building's shadows upon properties at the north and east side of the subject property primarily. The impact is studied at the specific time period and assessment criteria noted in SECTION 4.1 - IMPACT ASSESSMENT CRITERIA and APPENDIX 1.0 - SHADOW IMPACT SCHEDULE of this document.

MARCH 21 - FIGURE 2.1-1 TO 2.1-10

A. PUBLIC REALM

A.1 GORE PARK

1. Most areas of Gore Park receive a minimum of five (5) hours of continuous sunlight per day, with a small area on the West parcel receiving less than 5 hours.

A.2 STUDY AREA (2-4)

1. General public realm areas outside of Gore Park and the immediate vicinity to the project receive the required minimum of five (5) hours of continuous sunlight on March 21st.

B. PUBLIC SPACE AND COMMON AMENITY

B.1 GORE PARK

1. At no point in time on March 21st do the shadows of the proposed development cover more than 50% of the area of Gore Park. The proposed development complies with this requirement.
2. There are 4 periods of time where continuous shadow surpass the maximum three (3) hour window on Gore Park: 11:00-2:00, 12:00-4:00, 1:00-4:00, 2:00-5:00, with the period of greatest coverage being between 2:00 and 5:00 on March 21st. These areas are all found at the South East corner of the West parcel.

B.2 STUDY AREA (A) ROOFTOP AMENITY

1. The rooftop amenity of the proposed development experiences shadows greater than 50% at all times with the exception of 9:12 during the study period on March 21st.
2. The rooftop amenity of the proposed development experiences substantial shade at all times during the study period on March 21st. All areas of the rooftop amenity receive three (3) or greater hours of continuous shadow on March 21st.

C. RESIDENTIAL PRIVATE OUTDOOR AMENITY

No residential private outdoor amenity is affected by the proposed development.

D. DOWNTOWN KEY CIVIC AREAS (HAMILTON SECONDARY PLANS VOL. 2 CHAPT. B)**D.1 GORE PARK**

1. Most of Gore Park remains free and clear of net new shadows for the study period on March 21st. The greatest net new shadow impact is 1.4% at 12:12.
2. Development does not increase any cumulative shadows above 50% over the study period. Requirement is met.

JUNE 21 - FIGURE 2.1-1 TO 2.1-10**A. PUBLIC REALM****A.1 GORE PARK**

1. Gore Park receives no shade at any point in time of the study period on June 21st. The requirements for a minimum of 5h of continuous sunlight is met.

A.2 STUDY AREA (2-4)

1. Shadow coverage on surrounding public realm sidewalks and streetscapes allows extensive sunlight coverage at all times of the day. The requirements for a minimum of 5h of continuous sunlight is met.

B. PUBLIC SPACE AND COMMON AMENITY**B.1 GORE PARK**

1. Gore Park is entirely free of shade from the proposed development at all points in time on June 21st. All requirements are fully met.

B.2 STUDY AREA (A) ROOFTOP AMENITY

1. The rooftop amenity area included as part of the proposed development retains a minimum of 50% sun coverage at all times of the study period on June 21st, meeting the requirement.
2. An area of approximately 30% of the rooftop amenity area will experience greater than 3h of continuous shade during the study period on June 21st.

C. RESIDENTIAL PRIVATE OUTDOOR AMENITY

No residential private outdoor amenity is affected by the proposed development.

D. DOWNTOWN KEY CIVIC AREAS (HAMILTON SECONDARY PLANS VOL. 2 CHAPT. B)**D.1 GORE PARK**

1. Gore park is entirely free of shade from the proposed development at all points in time on June 21st. All requirements are fully met.
2. Development does not increase any cumulative shadows above 50% over the study period. Requirement is met.

SEPTEMBER 21 - FIGURE 2.1-1 TO 2.1-10**A. PUBLIC REALM****A.1 GORE PARK**

1. Most areas of Gore Park receive minimum of five (5) hours of continuous sunlight on September 21st, with a small area on the West parcel receiving less.

A.2 STUDY AREA (2-4)

1. General public realm areas outside of Gore Park and the immediate vicinity to the project receive the required minimum of five (5) hours of continuous sunlight on September 21st.

B. PUBLIC SPACE AND COMMON AMENITY**B.1 GORE PARK**

1. At no point in time on September 21st do the shadows of the proposed development cover more than 50% of the area of Gore Park. The proposed development complies with this requirement.
2. There are 4 periods of time where continuous shadow surpass the maximum three (3) hour window on Gore Park: 11:00-2:00, 12:00-4:00, 1:00-4:00, 2:00-5:00, with the period of greatest coverage being between 2:00 and 5:00 on September 21st. These areas are all found at the South East corner of the West parcel.

B.2 STUDY AREA (A) ROOFTOP AMENITY

1. The rooftop amenity of the proposed development experiences shadows greater than 50% at all times with the exception of 9:12 during the study period on September 21st.
2. The rooftop amenity of the proposed development experiences substantial shade at all times during the study period on September 21st. All areas of the rooftop amenity receive three (3) or greater hours of continuous shadow on September 21st.

C. RESIDENTIAL PRIVATE OUTDOOR AMENITY

No residential private outdoor amenity is affected by the proposed development.

D. DOWNTOWN KEY CIVIC AREAS (HAMILTON SECONDARY PLANS VOL. 2 CHAPT. B)**D.1 GORE PARK**

1. Most of Gore Park remains free and clear of net new shadows for the study period on September 21st. The greatest net new shadow impact is 1.4% at 12:12.
2. Development does not increase any cumulative shadows above 50% over the study period. Requirement is met.

SECTION 6.0 - SUMMARY OBSERVATIONS

REGARDING SHADOW IMPACT OF DEVELOPMENT UPON THE SURROUNDING AREA

The shadow impact analysis of the public sidewalks, streetscapes, public spaces and other shared public realm areas demonstrates that all areas outside of the boundary of Gore Park receive sufficient sunlight at all study times on March 21, June 21, September 21.

Shadow impacts on Gore Park are minimized by the use of deep setbacks above the 5th floor to keep all additional height as far from the park as possible, and matching the proposed development with adjacent existing building heights at the sidewalk boundary.

As part of public space and common amenity, the proposed 6th floor rooftop amenity space for the proposed development experiences substantial shade at all times of day on March 21 and September 21. On June 21, the rooftop amenity retains a minimum of 50% of sun coverage at all times, meeting the requirements. An area of approximately 1/3 of the rooftop amenity area will experience greater than 3h of continuous shade during the study period on June 21. The shadow conditions of the proposed outdoor amenity are an outcome of the positioning directly North of the twelve (12) storey portion of the proposed building 'A'. This is a predictable result of the setback and prioritization of sun on Gore Park.

As part of the public realm, Gore Park receives a minimum of five (5) hours of continuous sunlight per day on March 21, September 21, and June 21 with the exception of a small area on the West parcel receiving less than five continuous hours on March and September 21.

As part of public space and common amenity, at no point in time on March 21, June 21, or September 21 do the shadows from the proposed development cover more than 50% of Gore Park. There are four (4) periods of time on March 21 and September 21 where continuous shadow from the proposed development surpasses the maximum three (3) hours permitted for public spaces, the greatest coverage being between 2:00 and 5:00 on March 21 and September 21. The areas are all found at the South East portion of the West parcel.

As part of the downtown key civic areas under the Hamilton Secondary Plan, Gore Park receives minor net new shadows during the dates of March 21 and September 21, and no net new shadows at all during the date of June 21. The most net new shadows are between 11:00 and 3:00 on March 21 and September 21 and their greatest impact is 1.4% at 12:12 on both dates. The proposed development does not increase any cumulative shadow on Gore Park over 50% on any of the study dates.

No residential private outdoor amenity is impacted by the proposed development.

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Based on the impact observations measured against the assessment criteria relating to this site; the proposed development generally meets the impact criteria prescribed in the 'Sun/Shadow Study – Development Application Guidelines' developed by the City of Hamilton [v.Feb,2026] and 'Volume 2, Chapter B - Hamilton Secondary Plan' developed by the City of Hamilton [v.Feb,2026]. The proposed development presents a suitable building typology for this site and mitigates sun shading impact upon the neighbouring streetscapes and public realm using the building mass placement, deep setbacks, and matching the sidewalk edge building height with existing historic context.

In our opinion, this development is compatible with the area, does not have a significant negative impact on the existing neighbourhood in general and will not prevent the public enjoyment of the surrounding streetscapes and spaces.

Sincerely,
KNYMH Inc.

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APPENDIX 1.0 - SHADOW IMPACT SCHEDULE

Test Dates : March 21, June 21, September 21 and December 21

Test Times: Hourly intervals as specified in tables below, solar noon inclusive. December 21 uses standard time (UTC-5). All other dates use daylight savings time (UTC-4).

References:

'Sun/Shadow Study – Development Application Guidelines ' developed by the City of Hamilton [v.Feb,2026] and 'Volume 2, Chapter B - Hamilton Secondary Plan' developed by the City of Hamilton [v.Feb,2026]

MARCH 21	
Sunrise (+1.5)	7:20 AM (8:50)
Sunset (-1.5)	7:33 PM (6:03)
Solar Noon	1:26 PM
Test Times	
	9:12 AM
	10:12 AM
	11:12 AM
	12:12 AM
	1:12 PM
	2:12 PM
	3:12 PM
	4:12 PM
	5:12 PM

JUNE 21	
Sunrise (+1.5)	5:40 AM (7:10)
Sunset (-1.5)	9:01 PM (7:31)
Solar Noon	1:21 PM
Test Times	
	7:21 AM
	8:21 AM
	9:21 AM
	10:21 AM
	11:21 AM
	12:21 PM
	1:21 PM
	2:21 PM
	3:21 PM
	4:21 PM
	5:21 PM
	6:21 PM
	7:21 PM

SEPTEMBER 21	
Sunrise (+1.5)	7:06 AM (8:36)
Sunset (-1.5)	7:17 PM (5:47)
Solar Noon	1:12 PM
Test Times	
	9:12 AM
	10:12 AM
	11:12 AM
	12:12 PM
	1:12 PM
	2:12 PM
	3:12 PM
	4:12 PM
	5:12 PM

DECEMBER 21	
Sunrise (+1.5)	7:48 AM (9:18)
Sunset (-1.5)	4:46 PM (3:16)
Solar Noon	12:17 PM
Test Times	
	9:17 AM
	10:17 AM
	11:17 AM
	12:17 PM
	1:17 PM
	2:17 PM
	3:17 PM

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FIGURE A1.1 - SHADOW IMPACT GRAPHICS MARCH 21

SUN/SHADOW STUDY: (MARCH 21 • SPRING)

A summary of the Spring shadow effect of the proposal upon the surrounding area. This commentary will discuss the impact of the proposed building's shadows upon properties at the north, east and southeast side of the subject property. The impact is studied at the specific time period and assessment criteria noted in SECTION 4.1 - IMPACT ASSESSMENT CRITERIA and APPENDIX 1.0 - SHADOW IMPACT SCHEDULE of this document of the proposed development. The times for this period are under Eastern Daylight Time. (UTC -4:00)

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Date: July 23, 2026



MARCH 21, 9:12 AM

UTC: (-04:00)

Latitude: 43.206386 N, Longitude: 79.896129 W

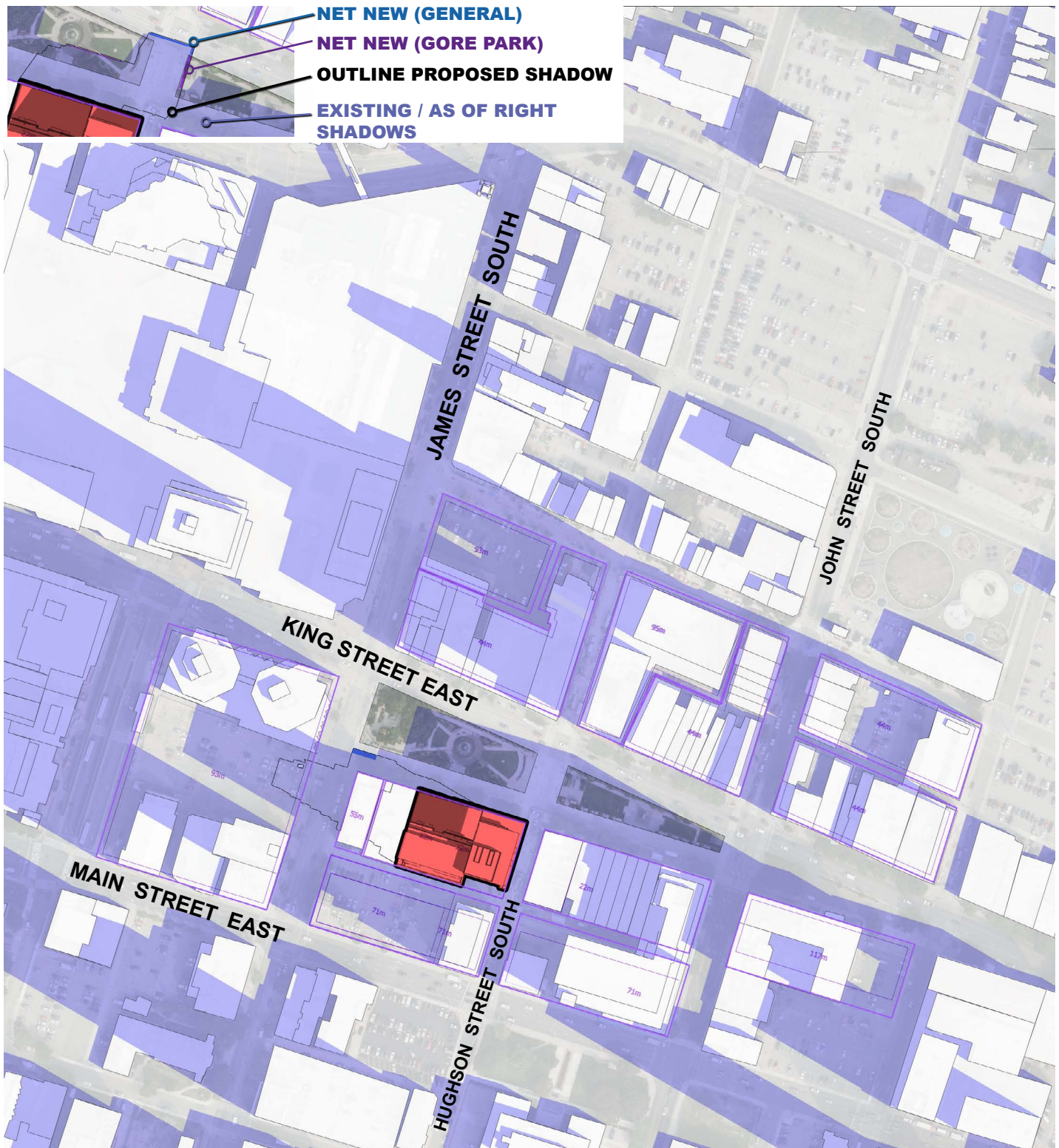


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Date: July 23, 2026



MARCH 21, 10:12 AM

UTC: (-04:00)

Latitude: 43.206386 N, Longitude: 79.896129 W



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Date: July 23, 2026



MARCH 21, 11:12 AM

UTC: (-04:00)

Latitude: 43.206386 N, Longitude: 79.896129 W

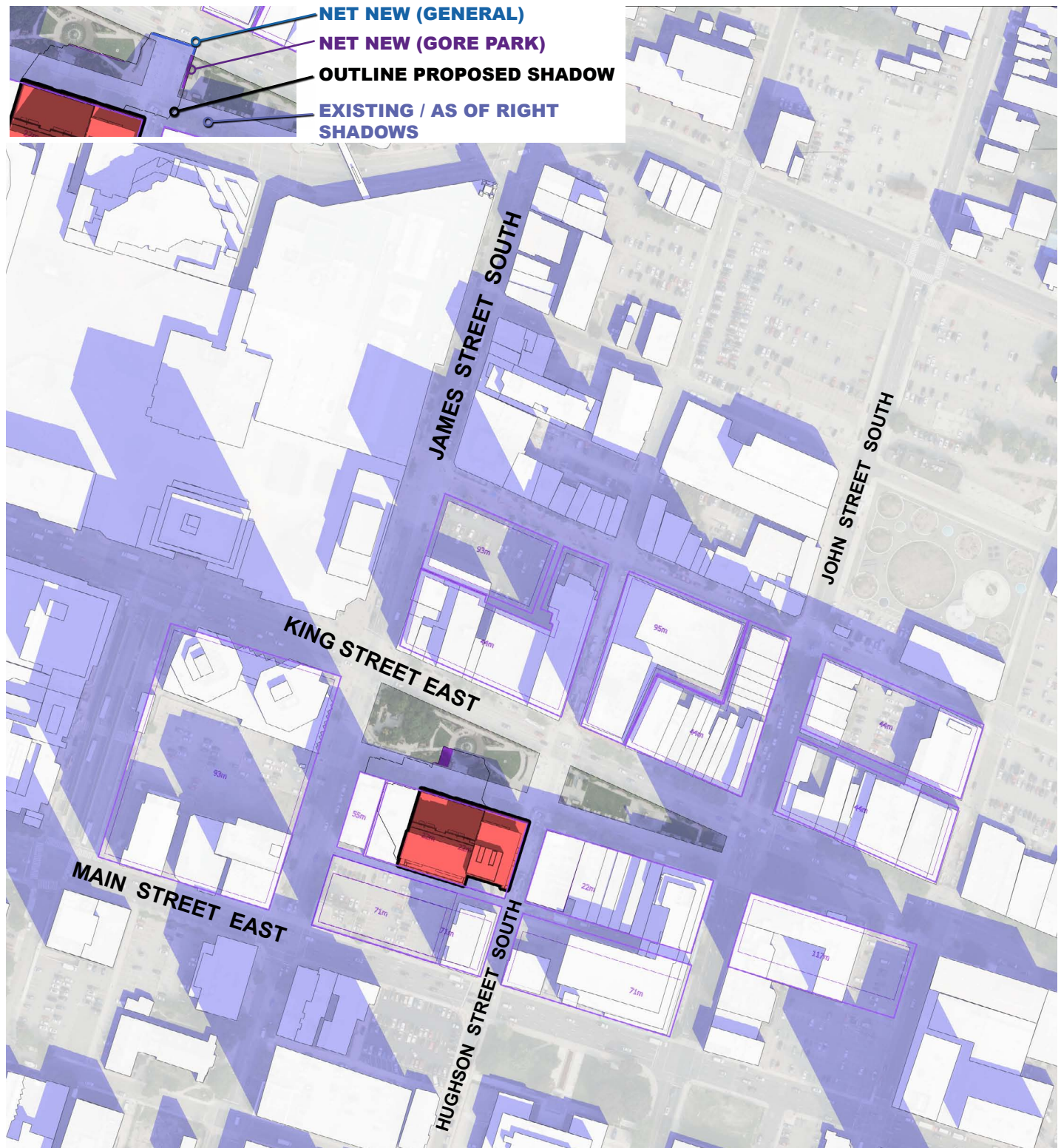


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Date: July 23, 2026



MARCH 21, 12:12 AM

UTC: (-04:00)

Latitude: 43.206386 N, Longitude: 79.896129 W



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Date: July 23, 2026



MARCH 21, 1:12 PM

UTC: (-04:00)

Latitude: 43.206386 N, Longitude: 79.896129 W



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Date: July 23, 2026



MARCH 21, 2:12 PM

UTC: (-04:00)

Latitude: 43.206386 N, Longitude: 79.896129 W

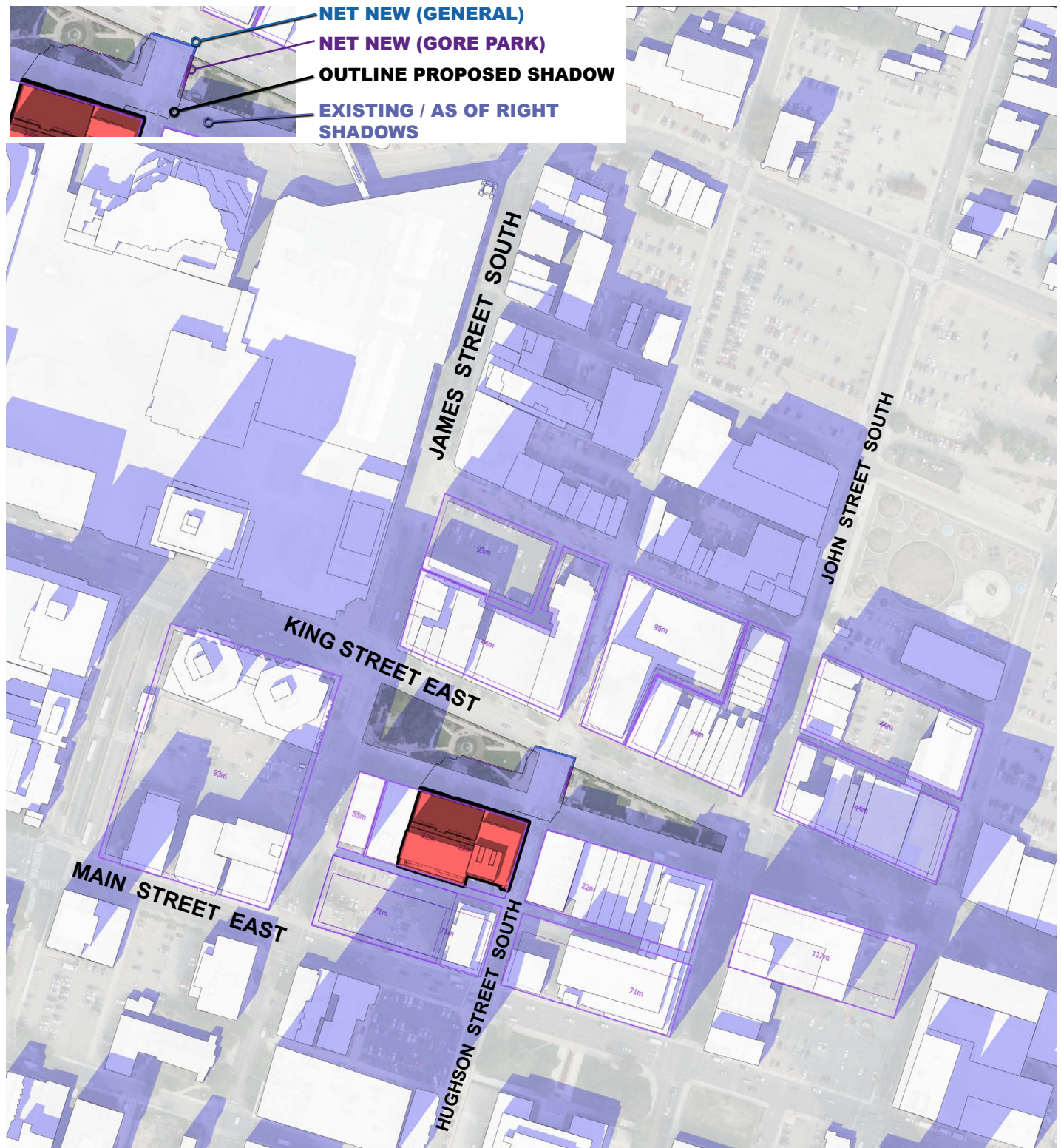


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Date: July 23, 2026



MARCH 21, 3:12 PM

UTC: (-04:00)

Latitude: 43.206386 N, Longitude: 79.896129 W



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Date: July 23, 2026



MARCH 21, 4:12 PM

UTC: (-04:00)

Latitude: 43.206386 N, Longitude: 79.896129 W



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MARCH 21, 5:12 PM

UTC: (-04:00)

Latitude: 43.206386 N, Longitude: 79.896129 W



FIGURE A1.2 - SHADOW IMPACT GRAPHICS JUNE 21

SUN/SHADOW STUDY: (JUNE 21 • SUMMER)

A summary of the Summer shadow effect of the proposal upon the surrounding area. This commentary will discuss the impact of the proposed building's shadows upon properties at the north, east and southeast side of the subject property. The impact is studied at the specific time period and assessment criteria noted in SECTION 4.1 - IMPACT ASSESSMENT CRITERIA and APPENDIX 1.0 - SHADOW IMPACT SCHEDULE of this document of the proposed development. The times for this period are under Eastern Daylight Time. (UTC -4:00)

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Date: July 23, 2026



JUNE 21, 7:21 AM

UTC: (-04:00)

Latitude: 43.206386 N, Longitude: 79.896129 W



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JUNE 21, 8:21 AM

UTC: (-04:00)

Latitude: 43.206386 N, Longitude: 79.896129 W



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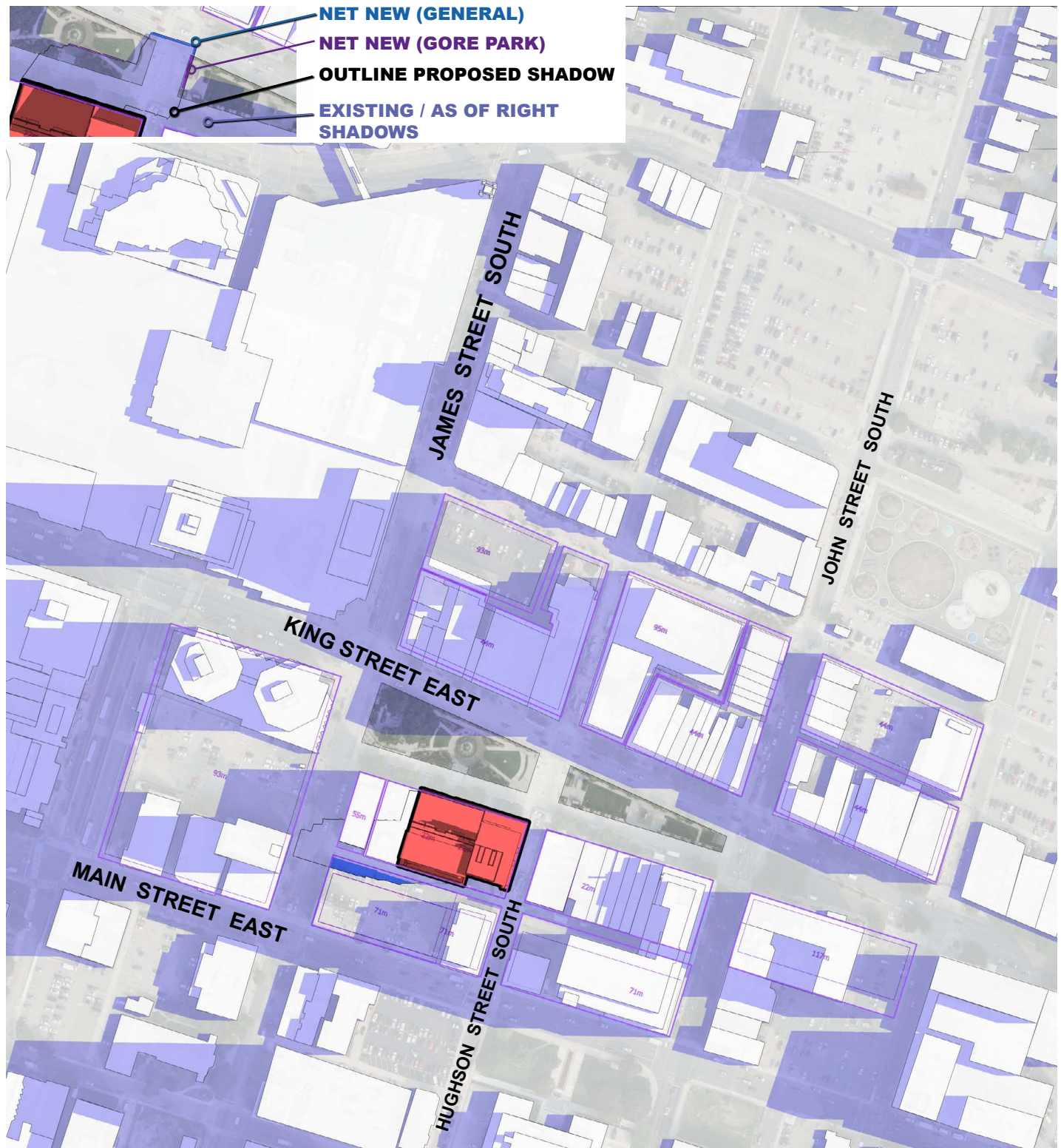
A1.2-3

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Date: July 23, 2026



JUNE 21, 9:21 AM

UTC: (-04:00)

Latitude: 43.206386 N, Longitude: 79.896129 W

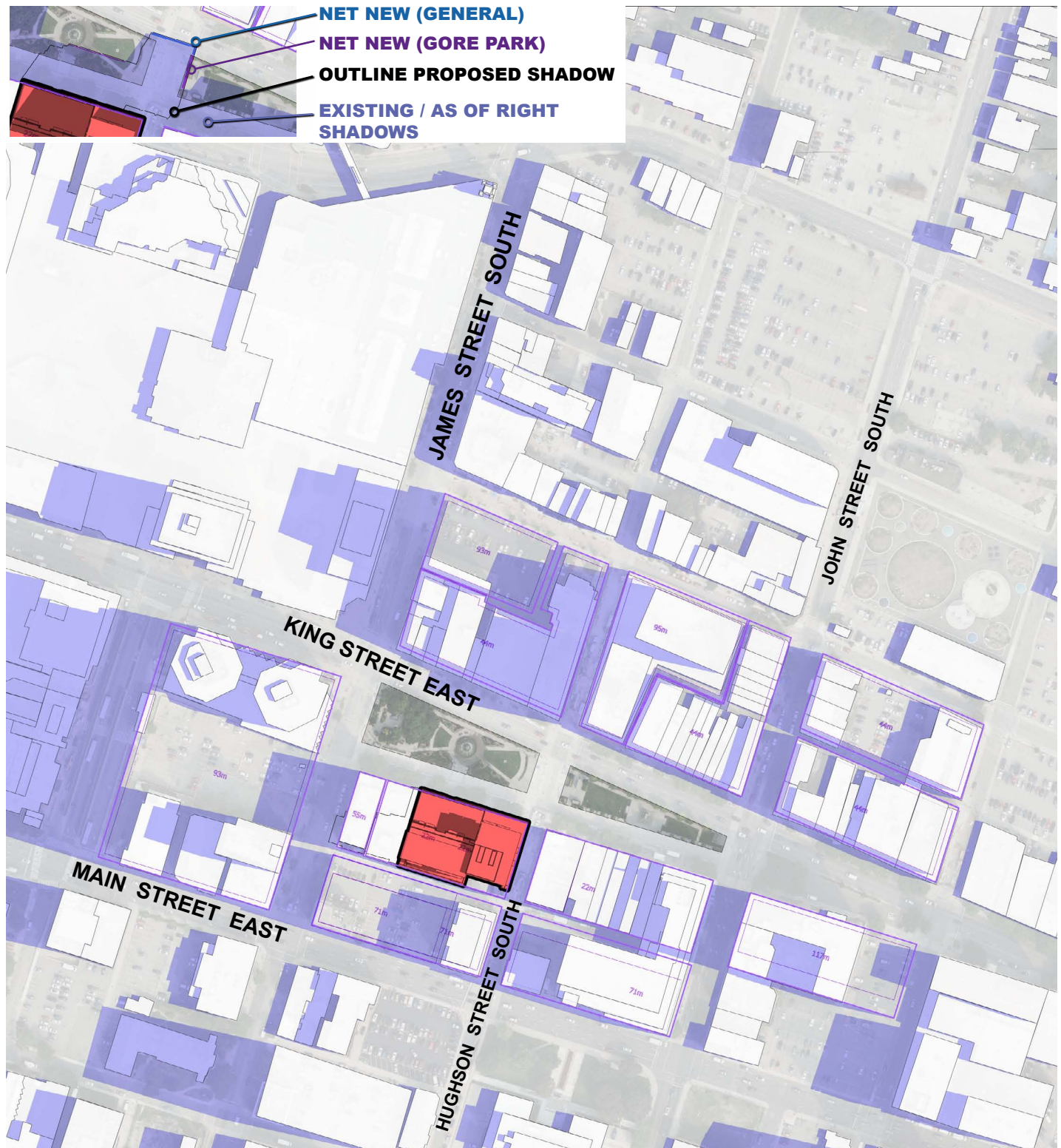


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Date: July 23, 2026



JUNE 21, 10:21 AM

UTC: (-04:00)

Latitude: 43.206386 N, Longitude: 79.896129 W

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Date: July 23, 2026



JUNE 21, 11:21 AM

UTC: (-04:00)

Latitude: 43.206386 N, Longitude: 79.896129 W

Date: July 23, 2026



JUNE 21, 12:21 PM

UTC: (-04:00)

Latitude: 43.206386 N, Longitude: 79.896129 W



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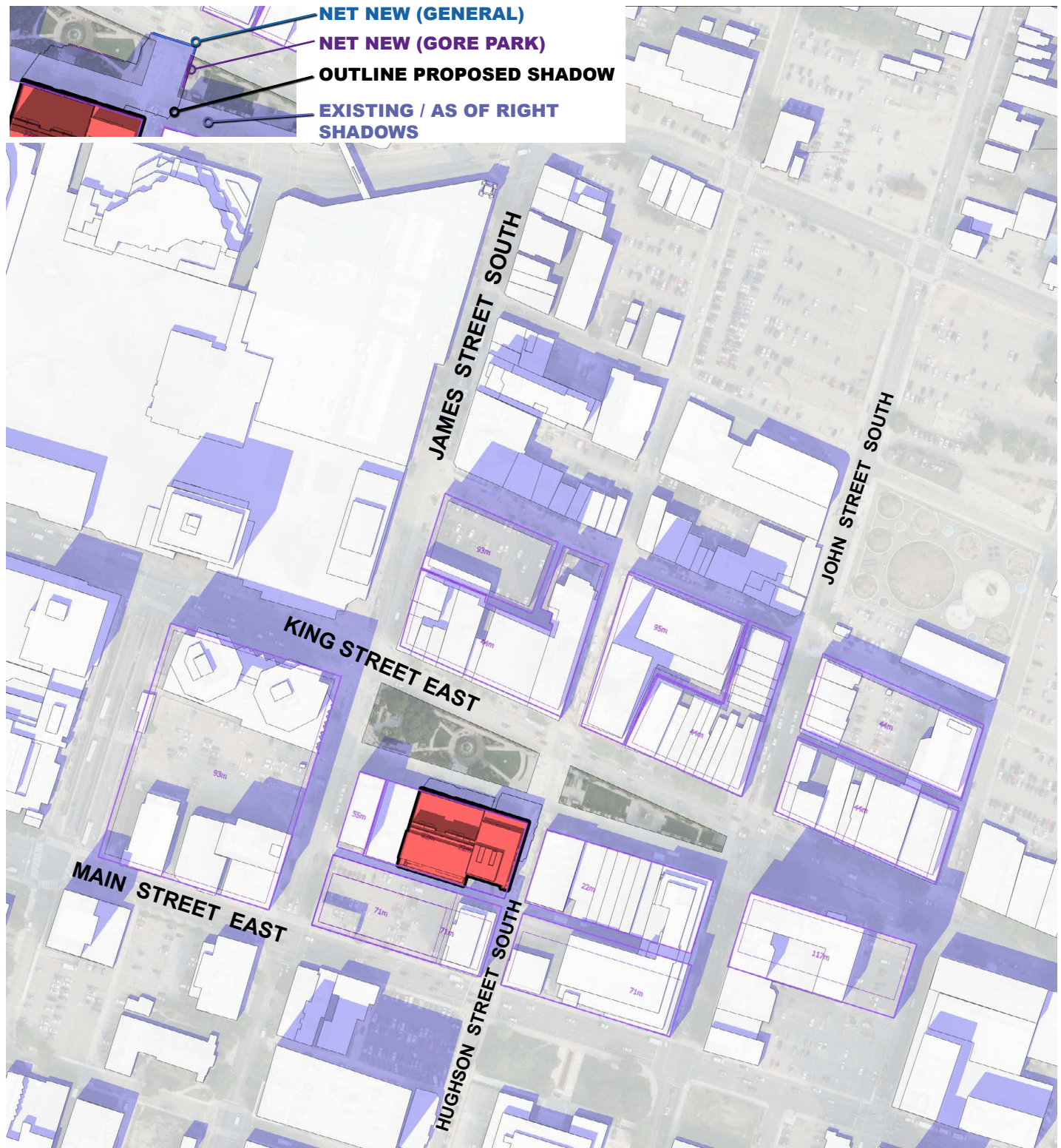


DESIGN IMPACT ANALYSIS

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Date: July 23, 2026



JUNE 21, 2:21 PM

UTC: (-04:00)

Latitude: 43.206386 N, Longitude: 79.896129 W

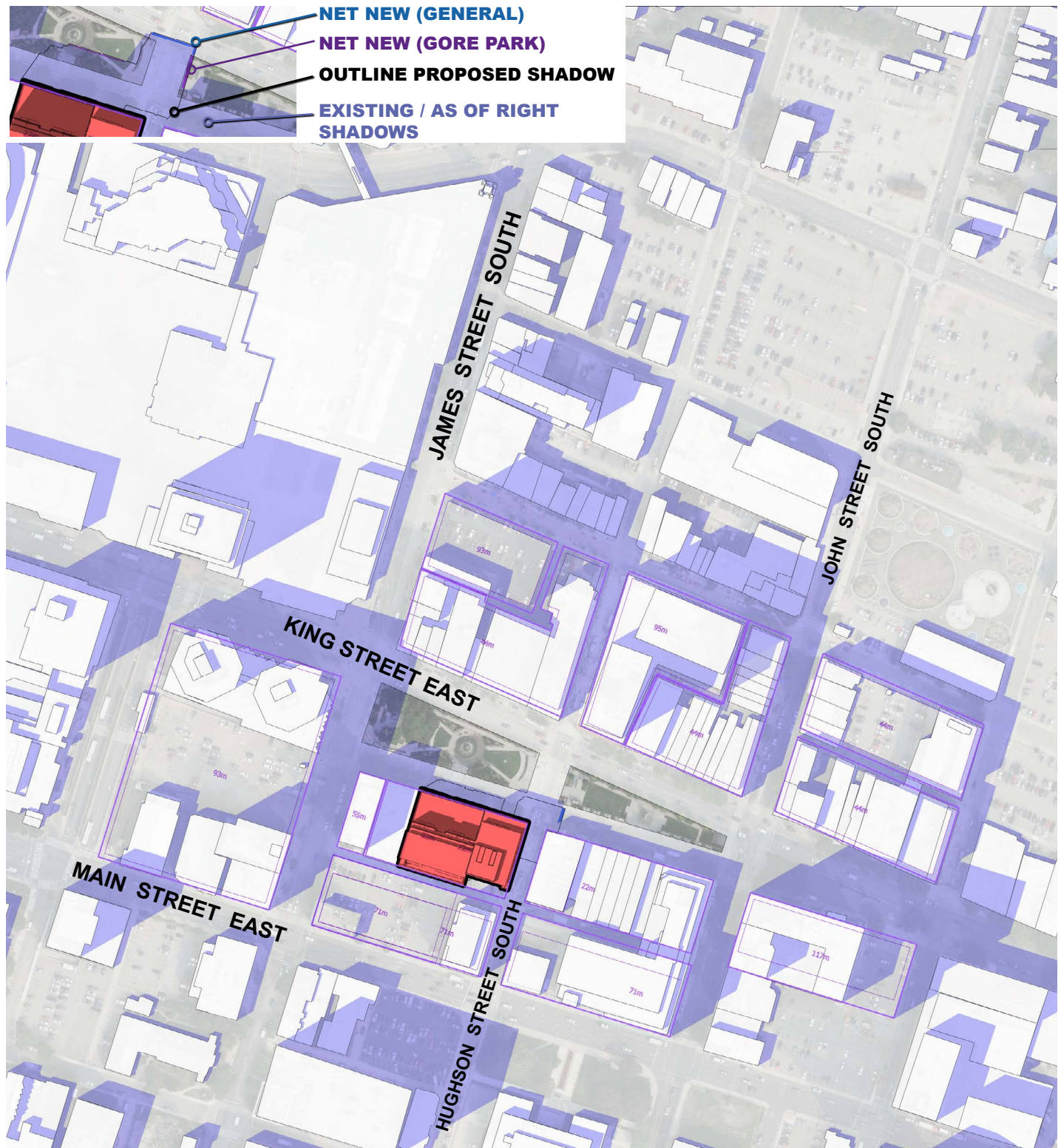


DESIGN IMPACT ANALYSIS

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Date: July 23, 2026



JUNE 21, 3:21 PM

UTC: (-04:00)

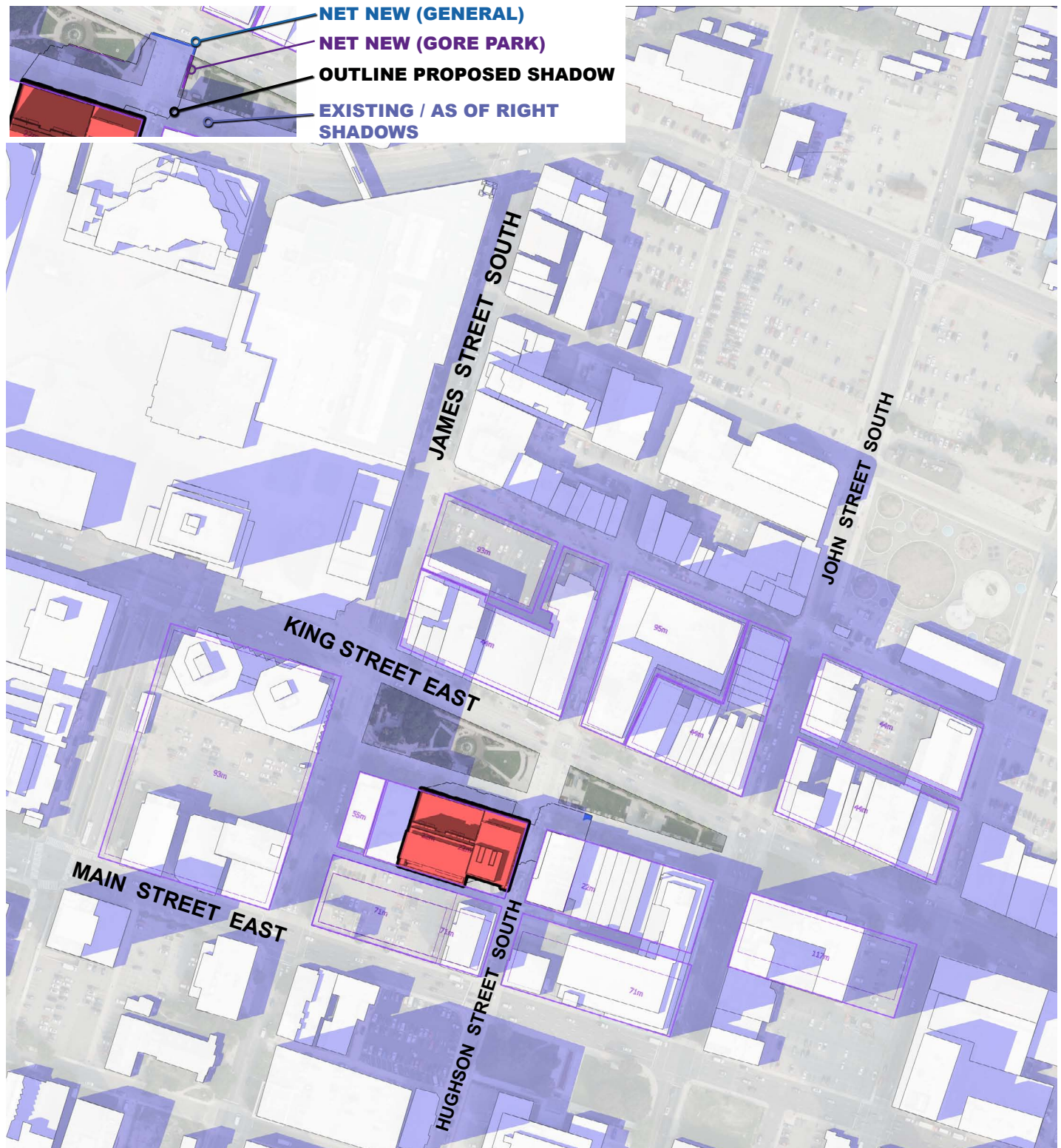
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DESIGN IMPACT ANALYSIS

King Street - Gore Park Condos, Hamilton, Ontario

KNYMH File # 23019 v.2.0

Date: July 23, 2026



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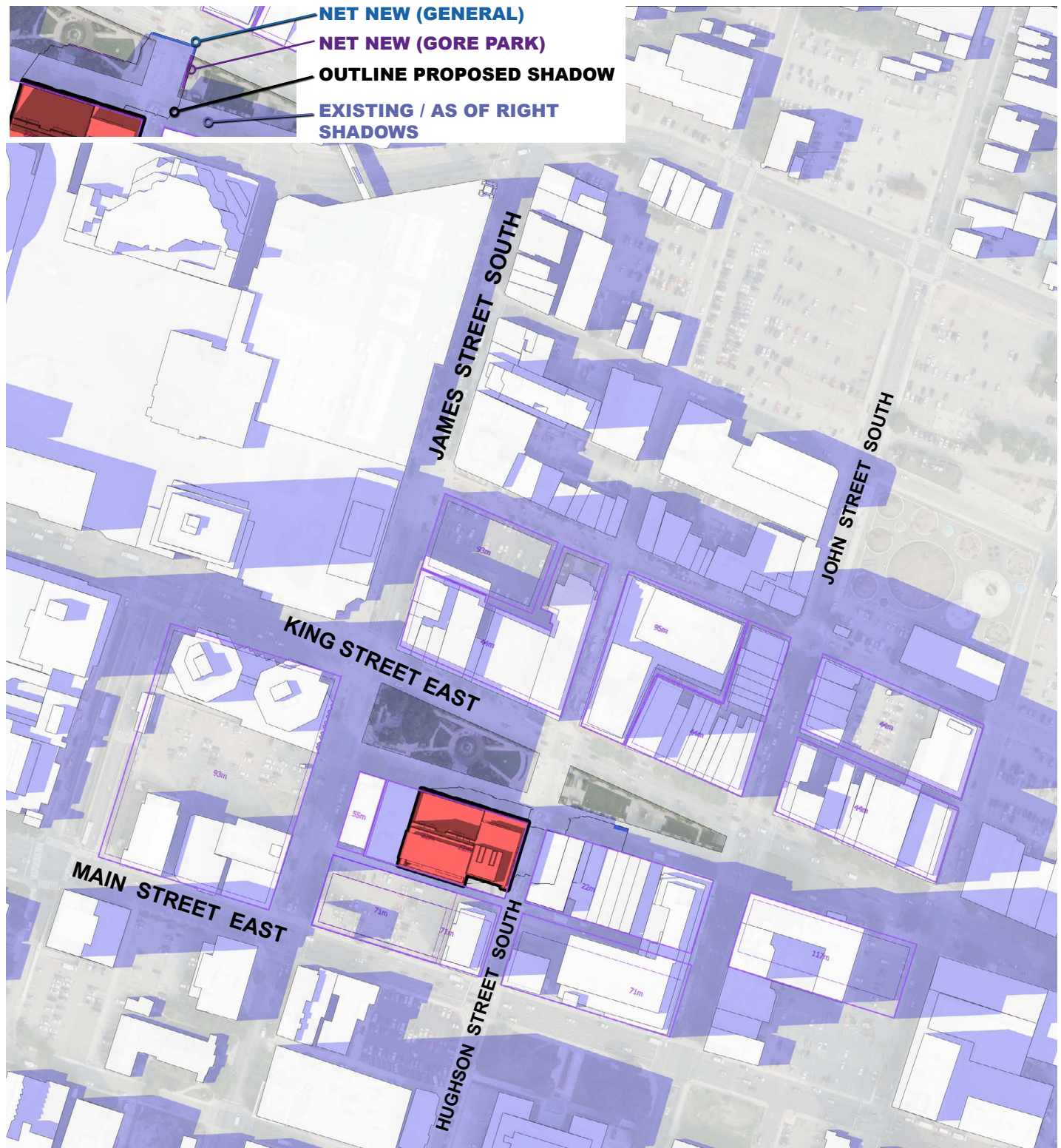
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Latitude: 43.206386 N, Longitude: 79.896129 W



FIGURE A1.3 - SHADOW IMPACT GRAPHICS SEPTEMBER 21

SUN/SHADOW STUDY: (SEPTEMBER 21 • FALL)

A summary of the Fall shadow effect of the proposal upon the surrounding area. This commentary will discuss the impact of the proposed building's shadows upon properties at the north, east and southeast side of the subject property. The impact is studied at the specific time period and assessment criteria noted in SECTION 4.1 - IMPACT ASSESSMENT CRITERIA and APPENDIX 1.0 - SHADOW IMPACT SCHEDULE of this document of the proposed development. The times for this period are under Eastern Daylight Time. (UTC -4:00)

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Date: July 23, 2026



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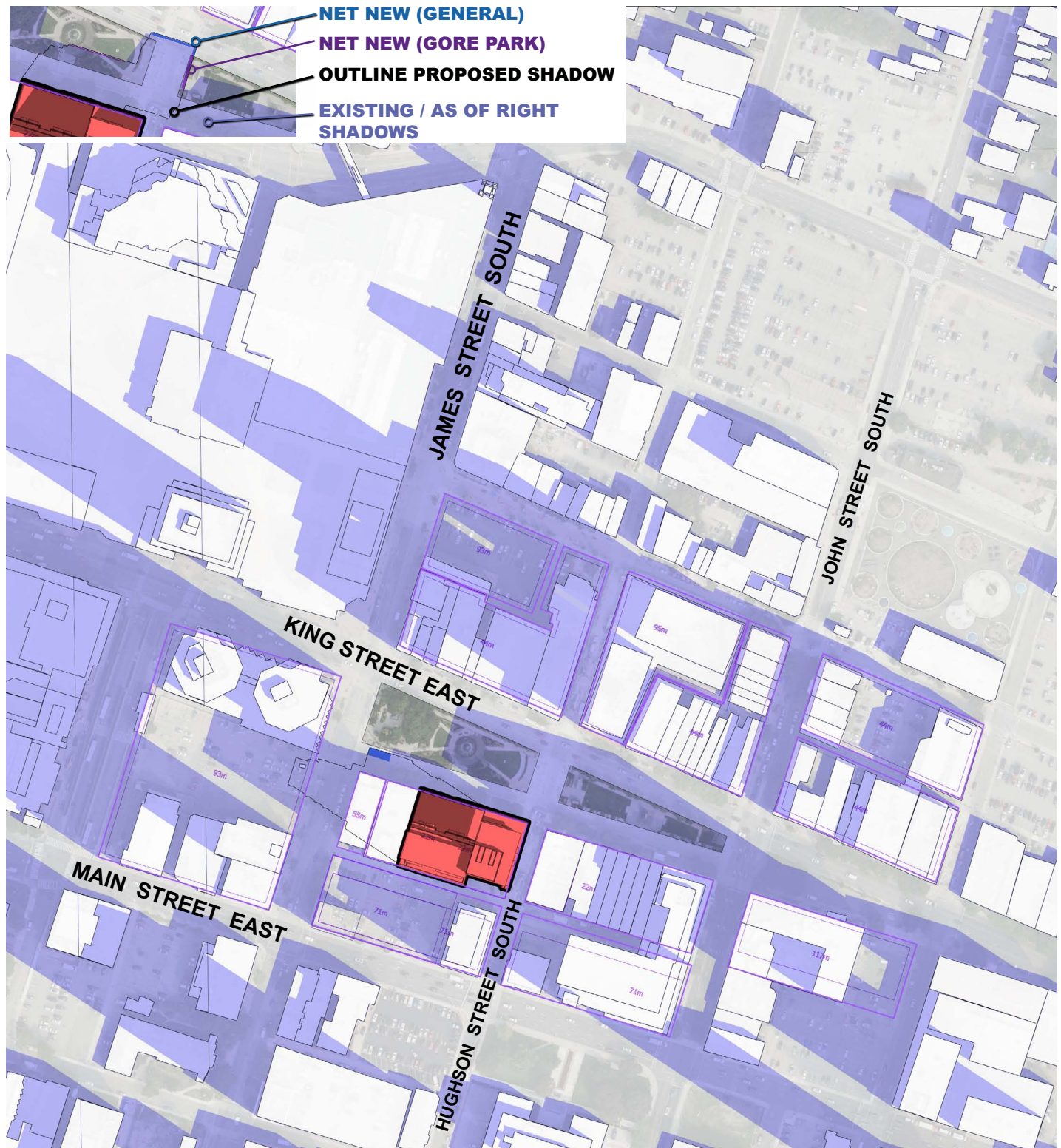


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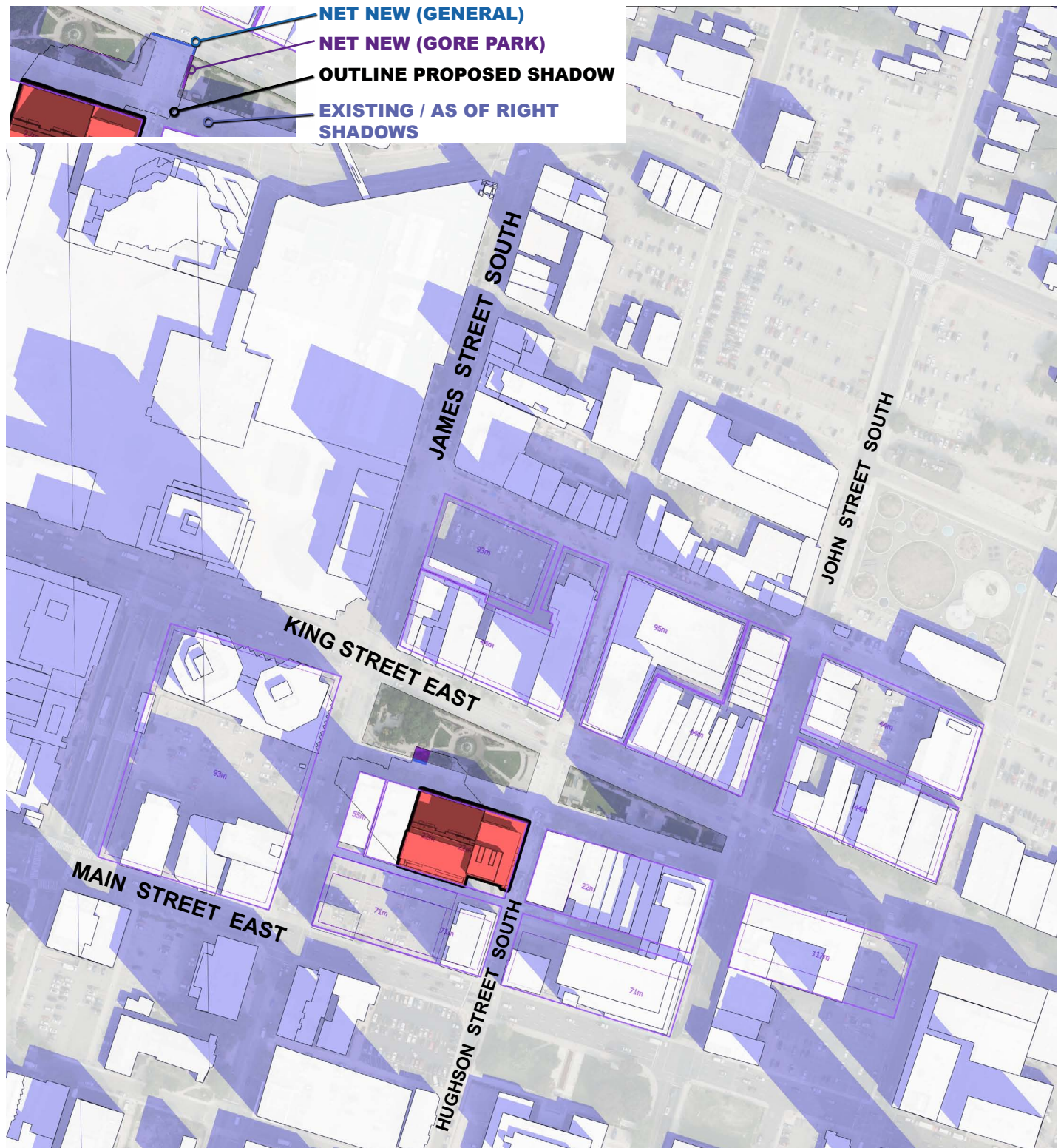


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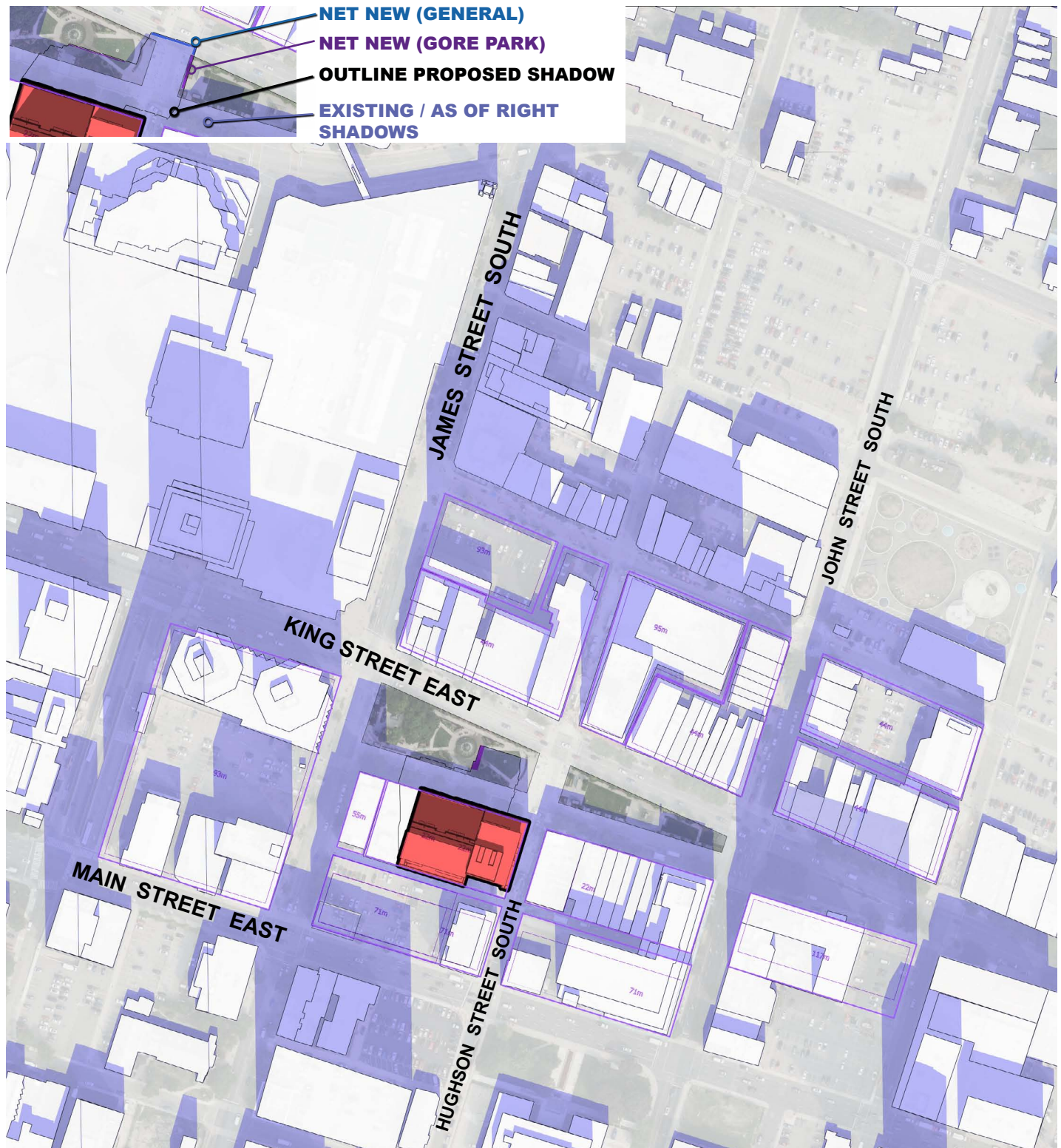


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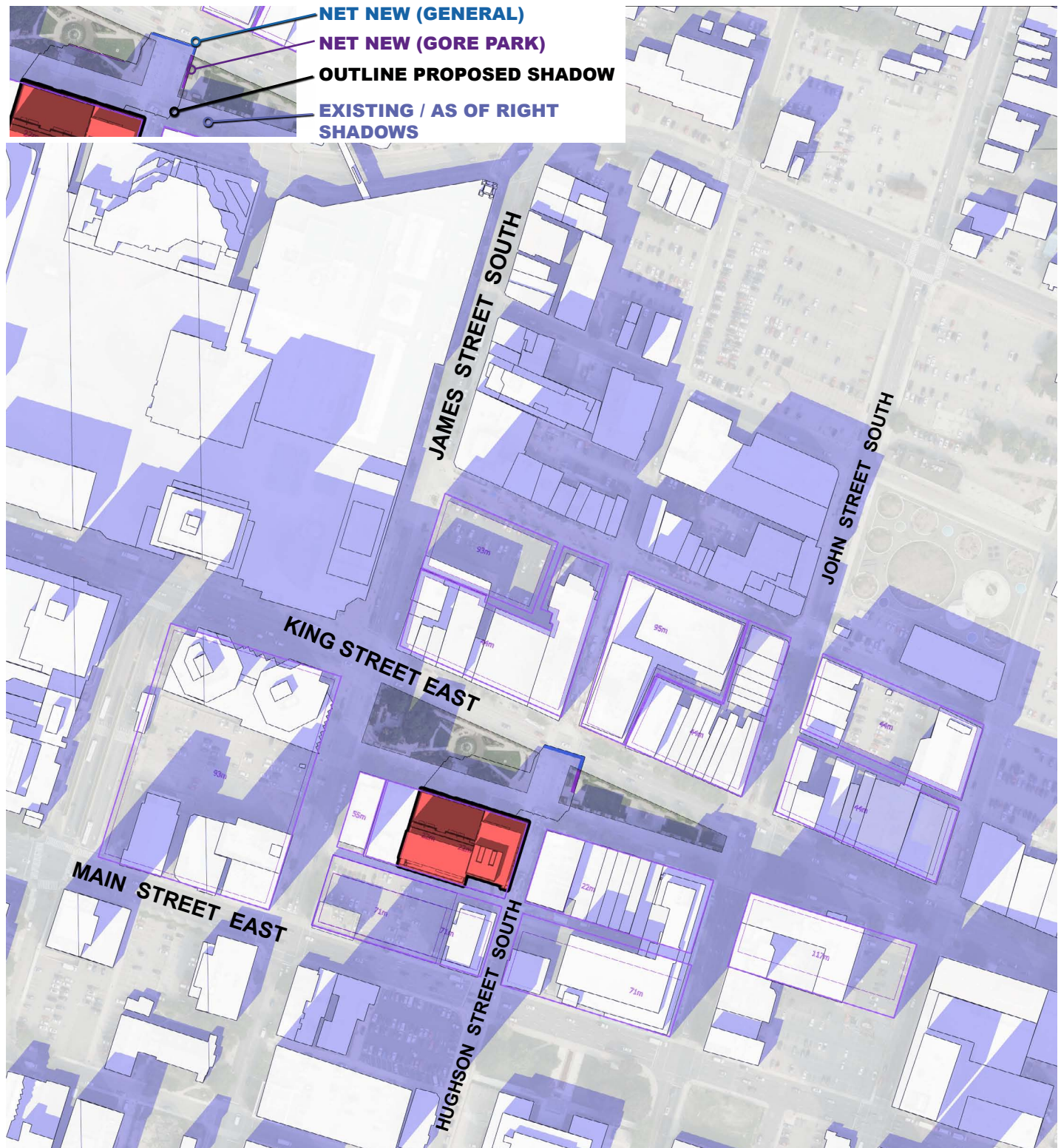
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A1.3-8

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Latitude: 43.206386 N, Longitude: 79.896129 W

FIGURE A1.4 - SHADOW IMPACT GRAPHICS DECEMBER 21

SUN/SHADOW STUDY: (DECEMBER 21 • WINTER)

A summary of the Winter shadow effect of the proposal upon the surrounding area. This commentary will discuss the impact of the proposed building's shadows upon properties at the north, east and southeast side of the subject property. The impact is studied at the specific time period and assessment criteria noted in SECTION 4.1 - IMPACT ASSESSMENT CRITERIA and APPENDIX 1.0 - SHADOW IMPACT SCHEDULE of this document of the proposed development in addition to an 'as of right' comparative mass permitted by the Zoning by-law for the subject land. The times for this period are under Eastern Daylight Time. (UTC -5:00)

DESIGN IMPACT ANALYSIS

King Street - Gore Park Condos, Hamilton, Ontario

KNYMH File # 23019 v.2.0

Date: July 23, 2026



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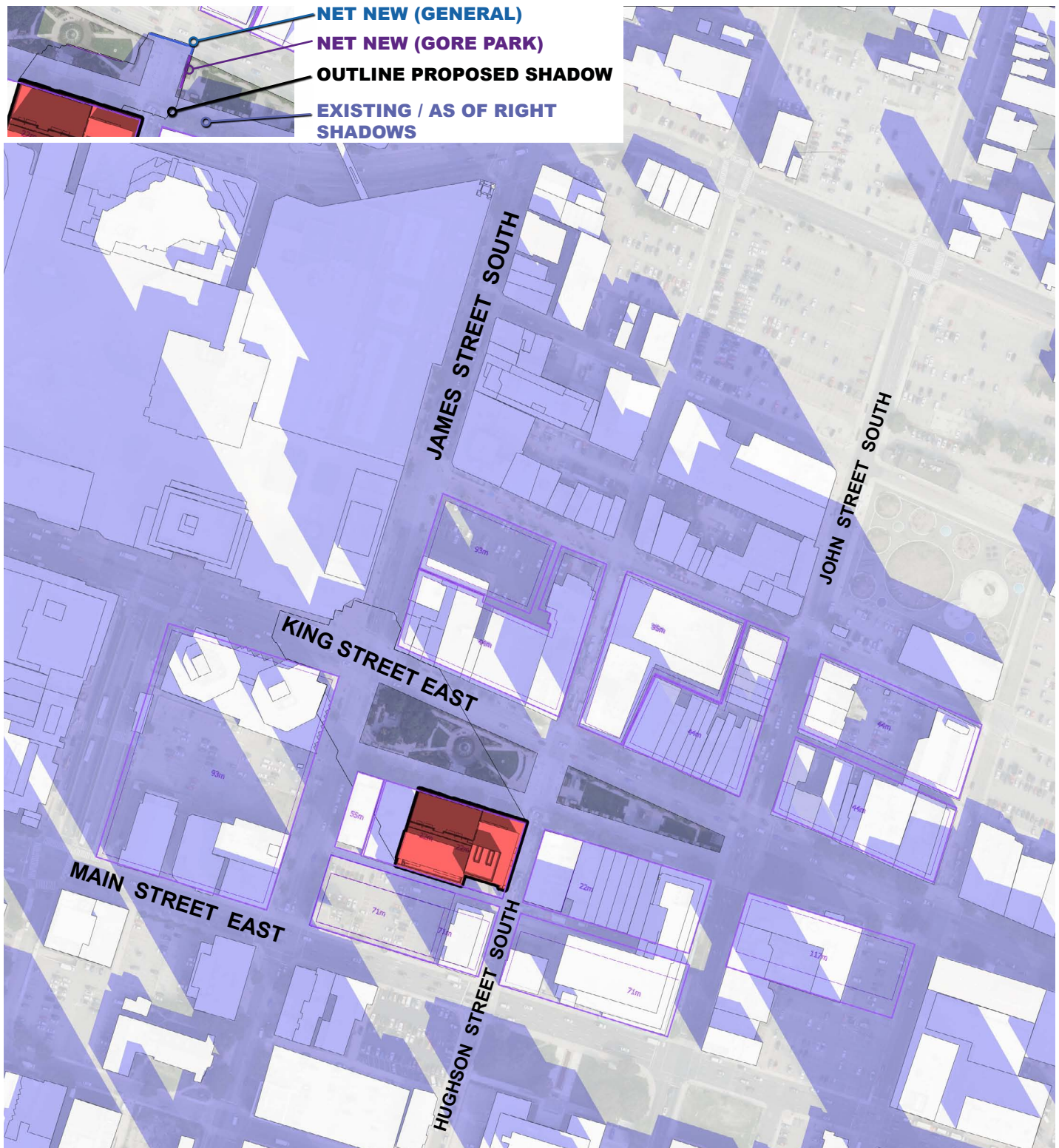


DESIGN IMPACT ANALYSIS

King Street - Gore Park Condos, Hamilton, Ontario

KNYMH File # 23019 v.2.0

Date: July 23, 2026



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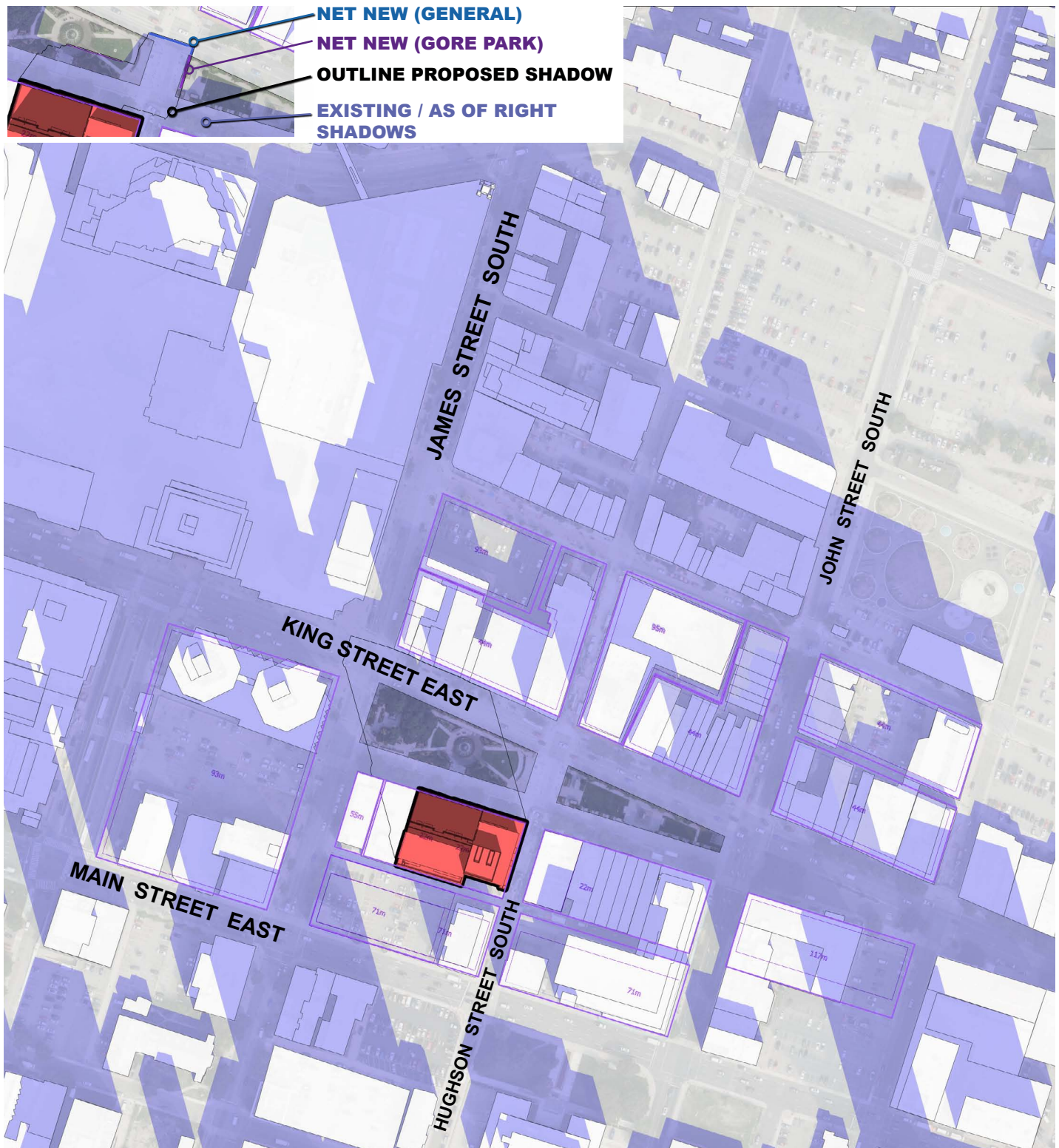
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DESIGN IMPACT ANALYSIS

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KNYMH File # 23019 v.2.0

Date: July 23, 2026



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DESIGN IMPACT ANALYSIS

King Street - Gore Park Condos, Hamilton, Ontario

KNYMH File # 23019 v.2.0

Date: July 23, 2026



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DESIGN IMPACT ANALYSIS

King Street - Gore Park Condos, Hamilton, Ontario

KNYMH File # 23019 v.2.0

Date: July 23, 2026



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DESIGN IMPACT ANALYSIS

King Street - Gore Park Condos, Hamilton, Ontario

KNYMH File # 23019 v.2.0

Date: July 23, 2026



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Latitude: 43.206386 N, Longitude: 79.896129 W



DESIGN IMPACT ANALYSIS

King Street - Gore Park Condos, Hamilton, Ontario

KNYMH File # 23019 v.2.0

Date: July 23, 2026



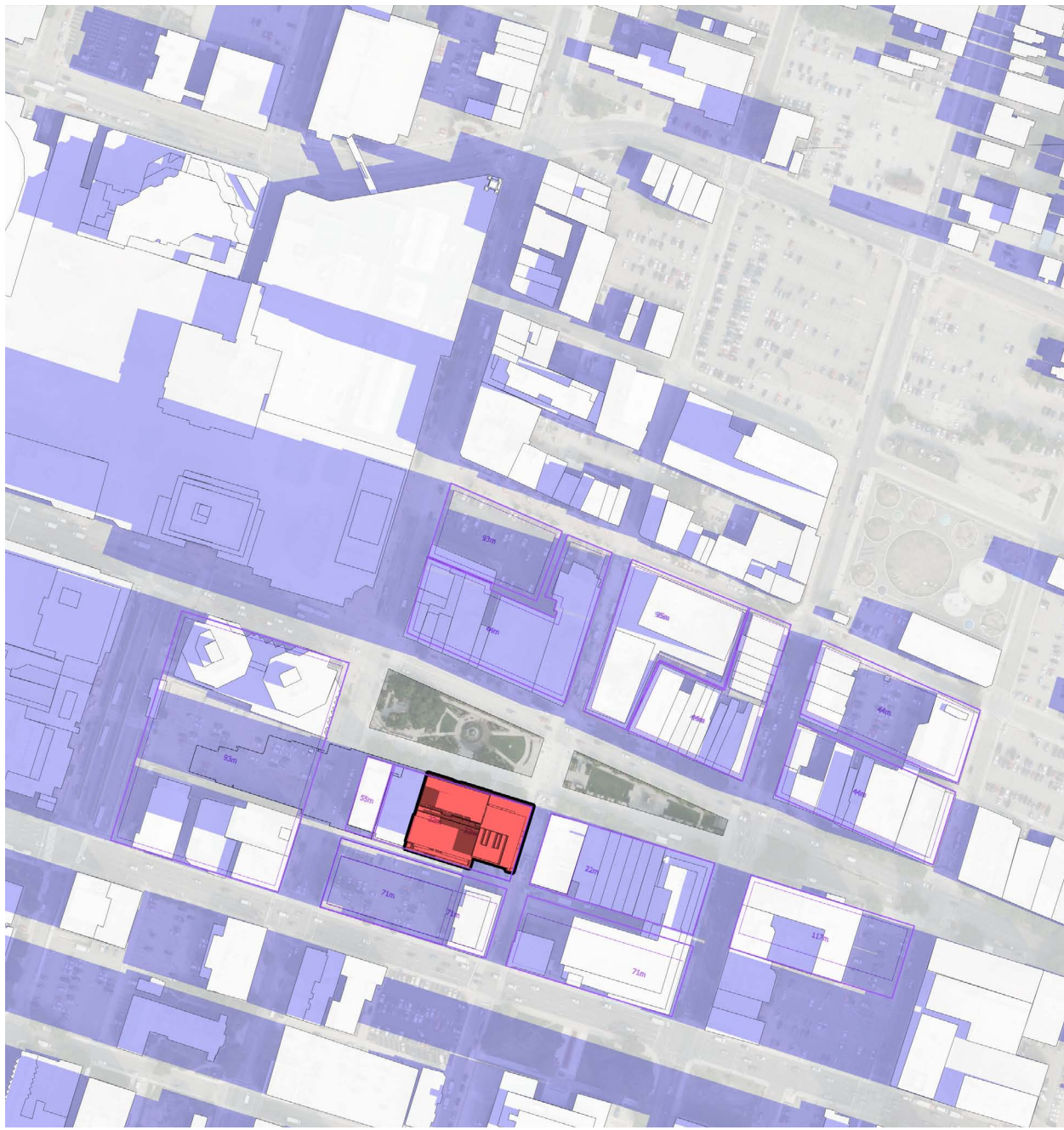
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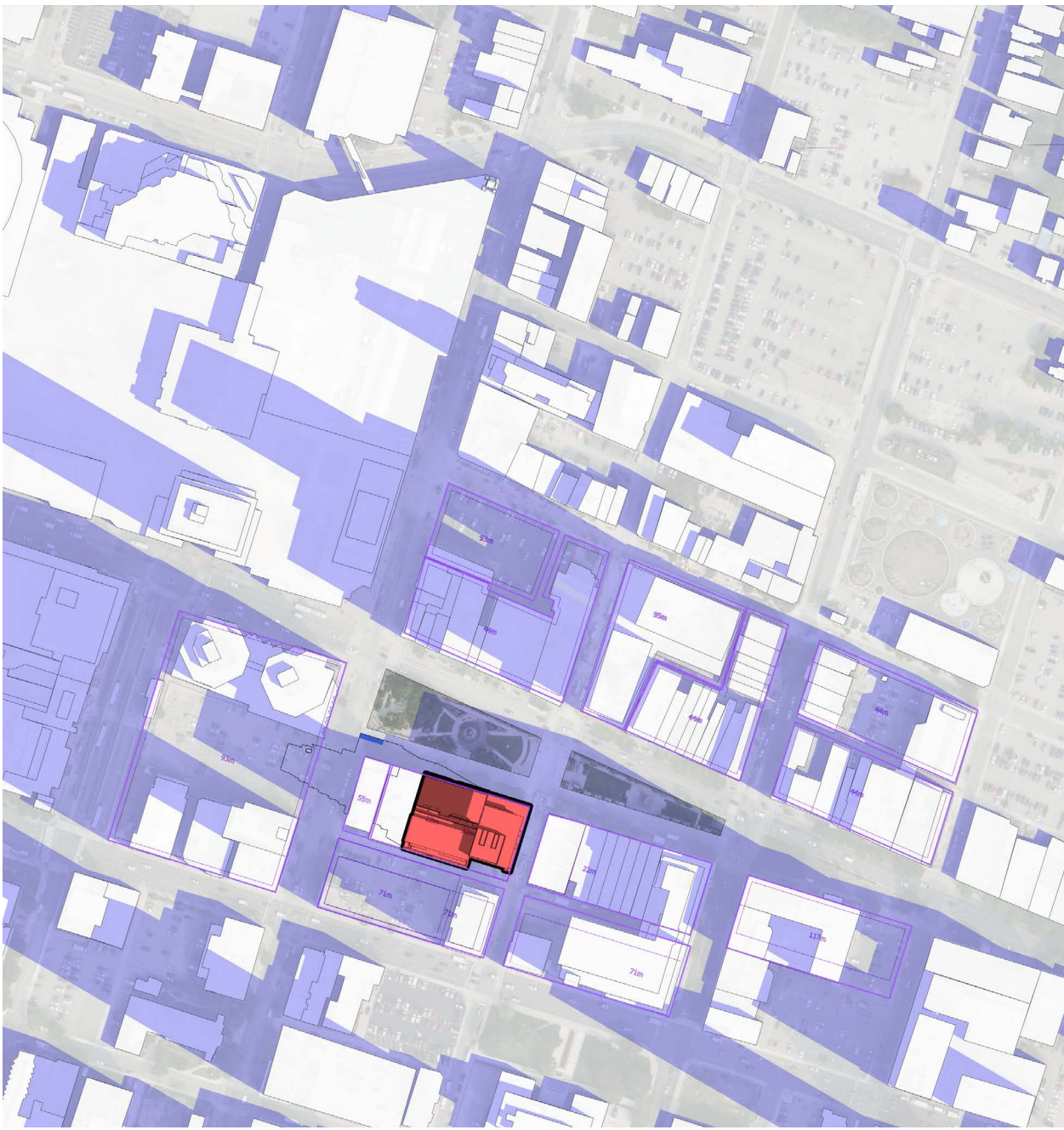
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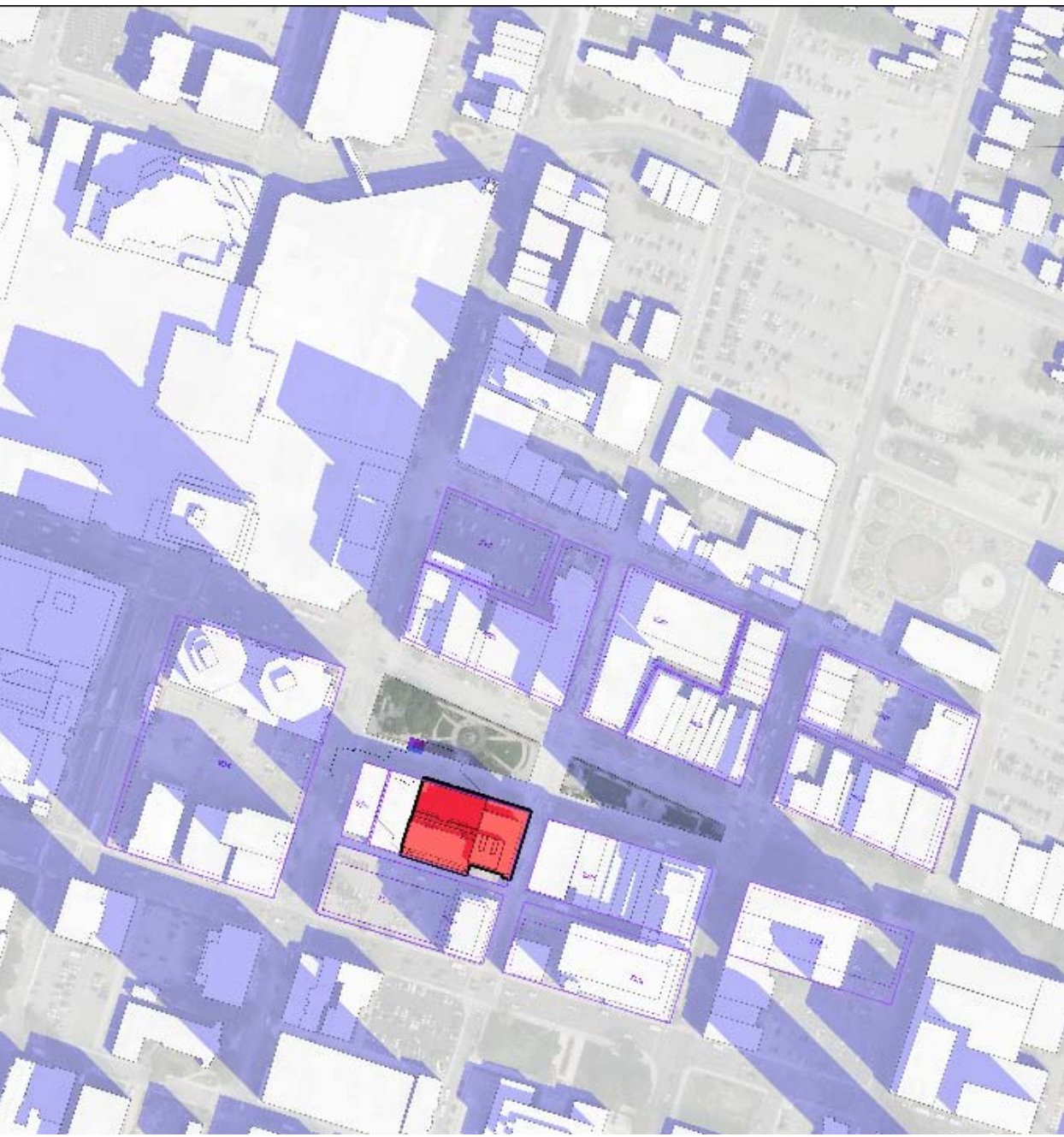
FIGURE A2 - SHADOW IMPACT GRAPHICS TABLES



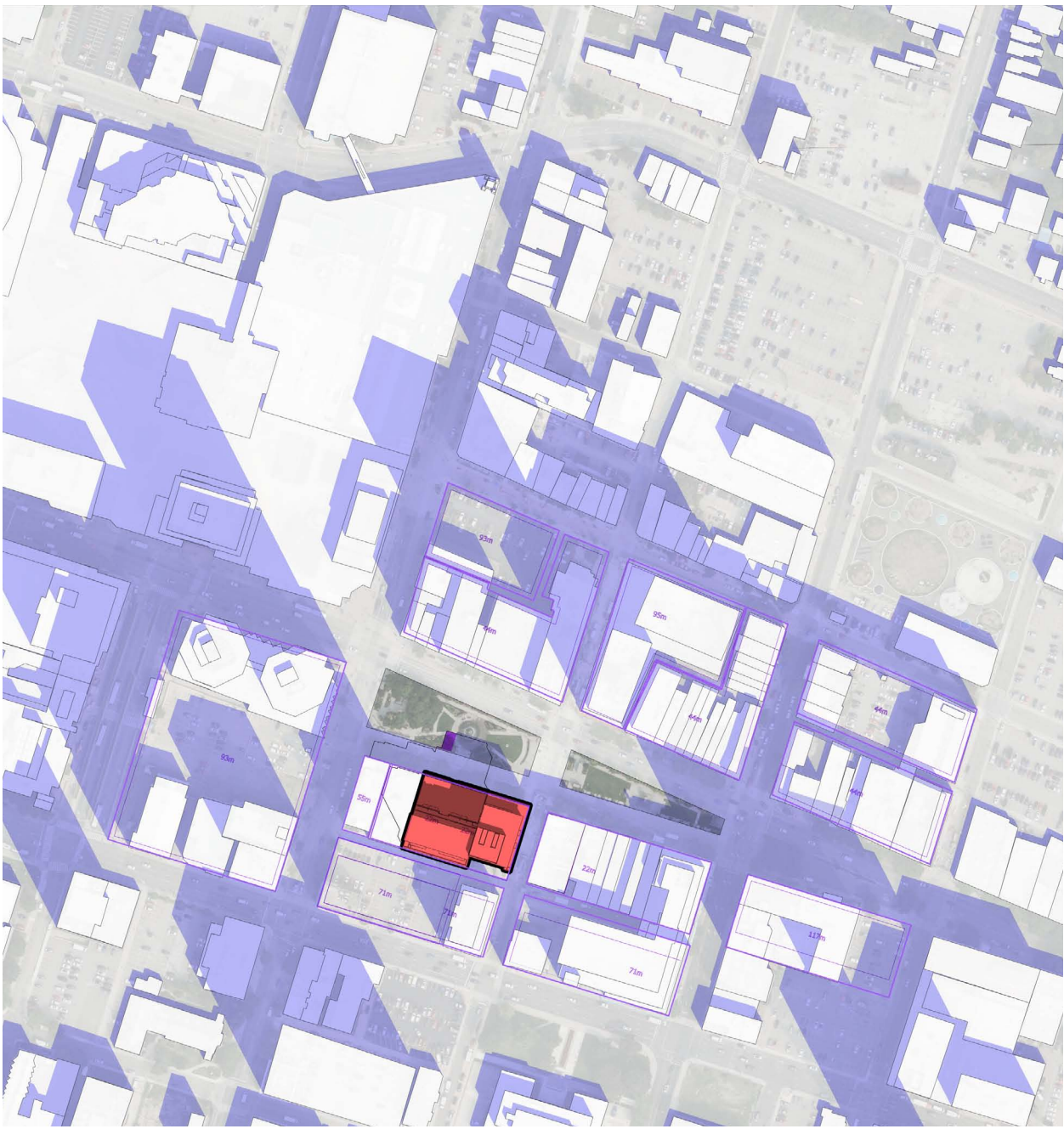
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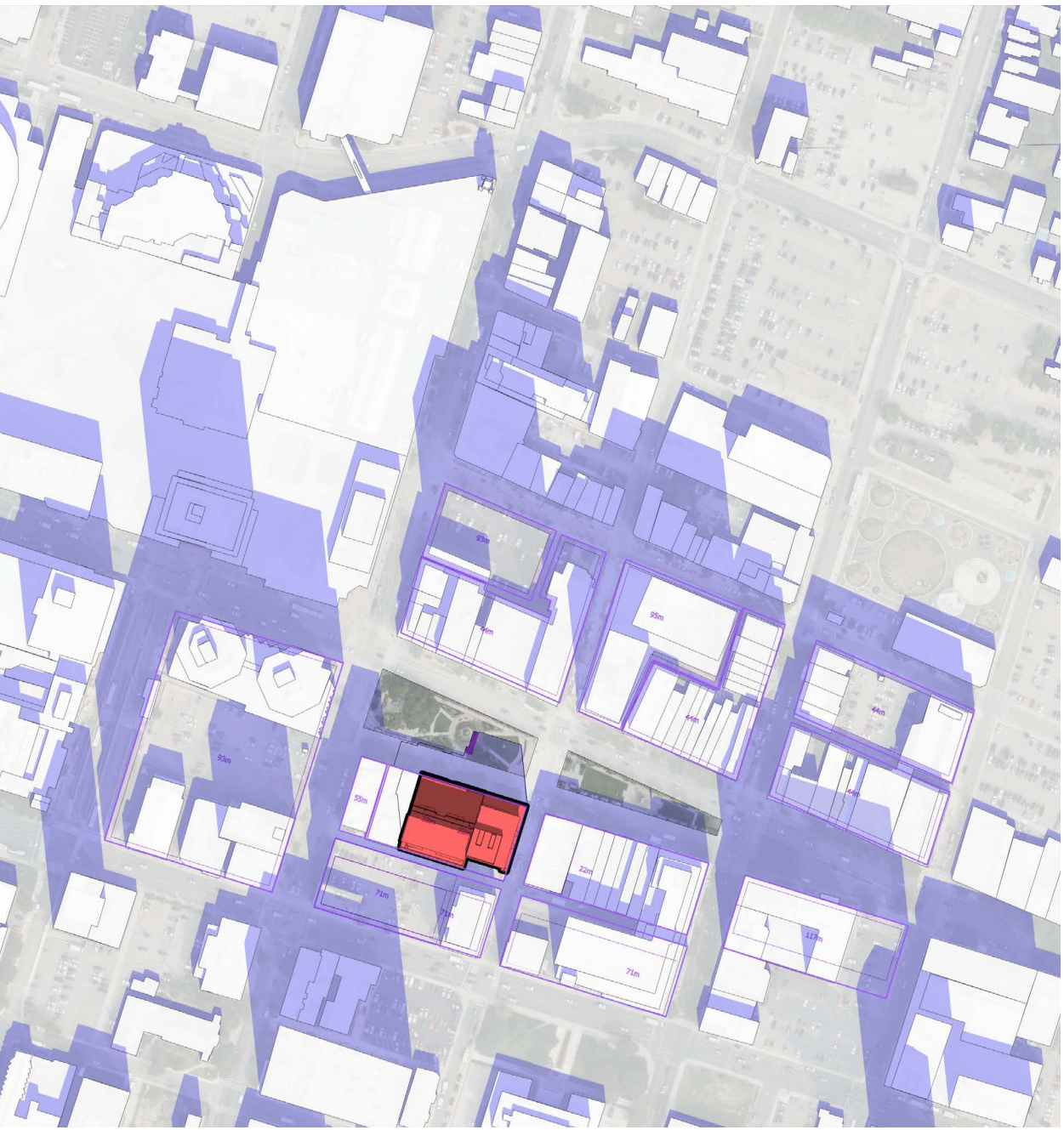
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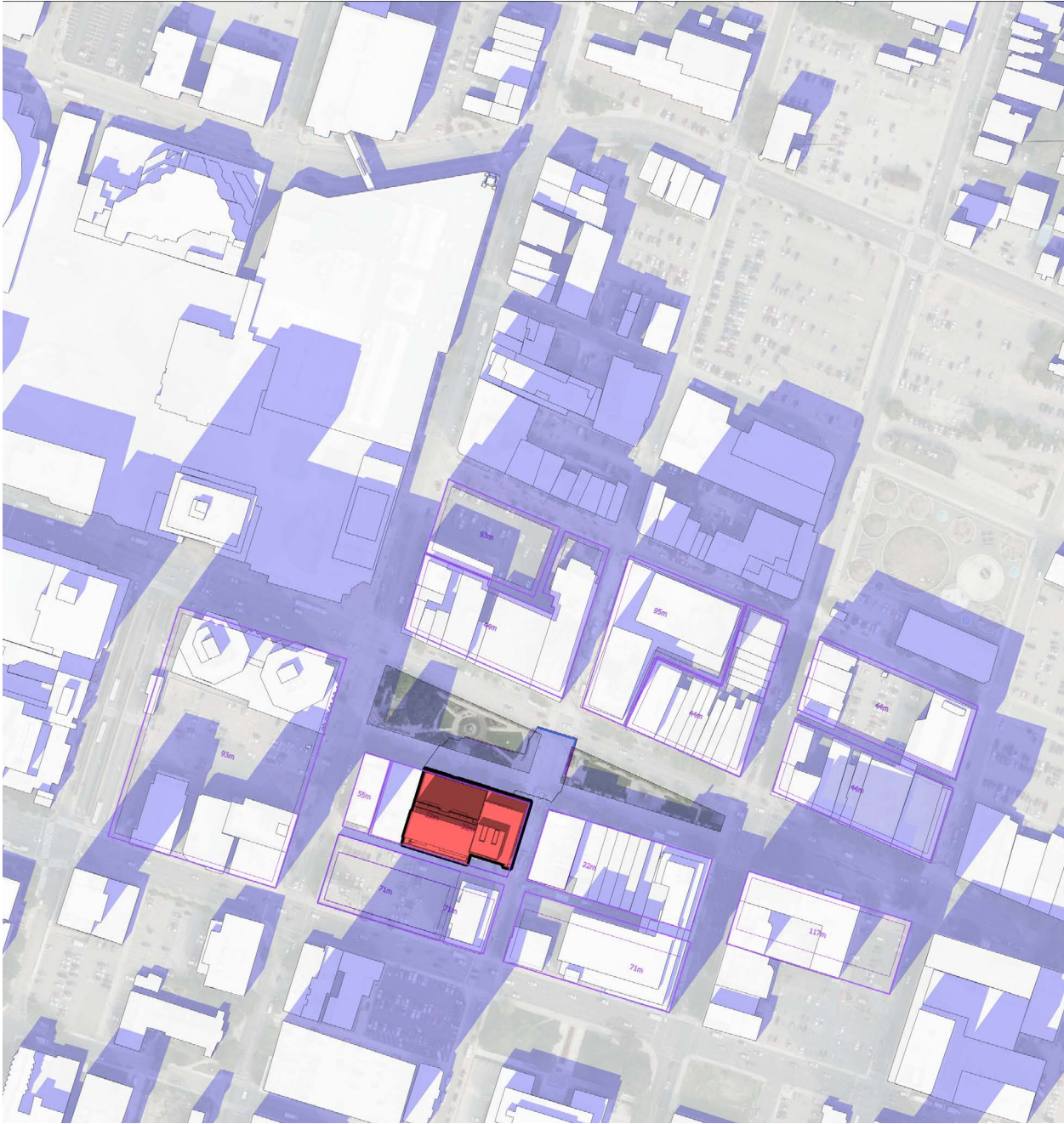
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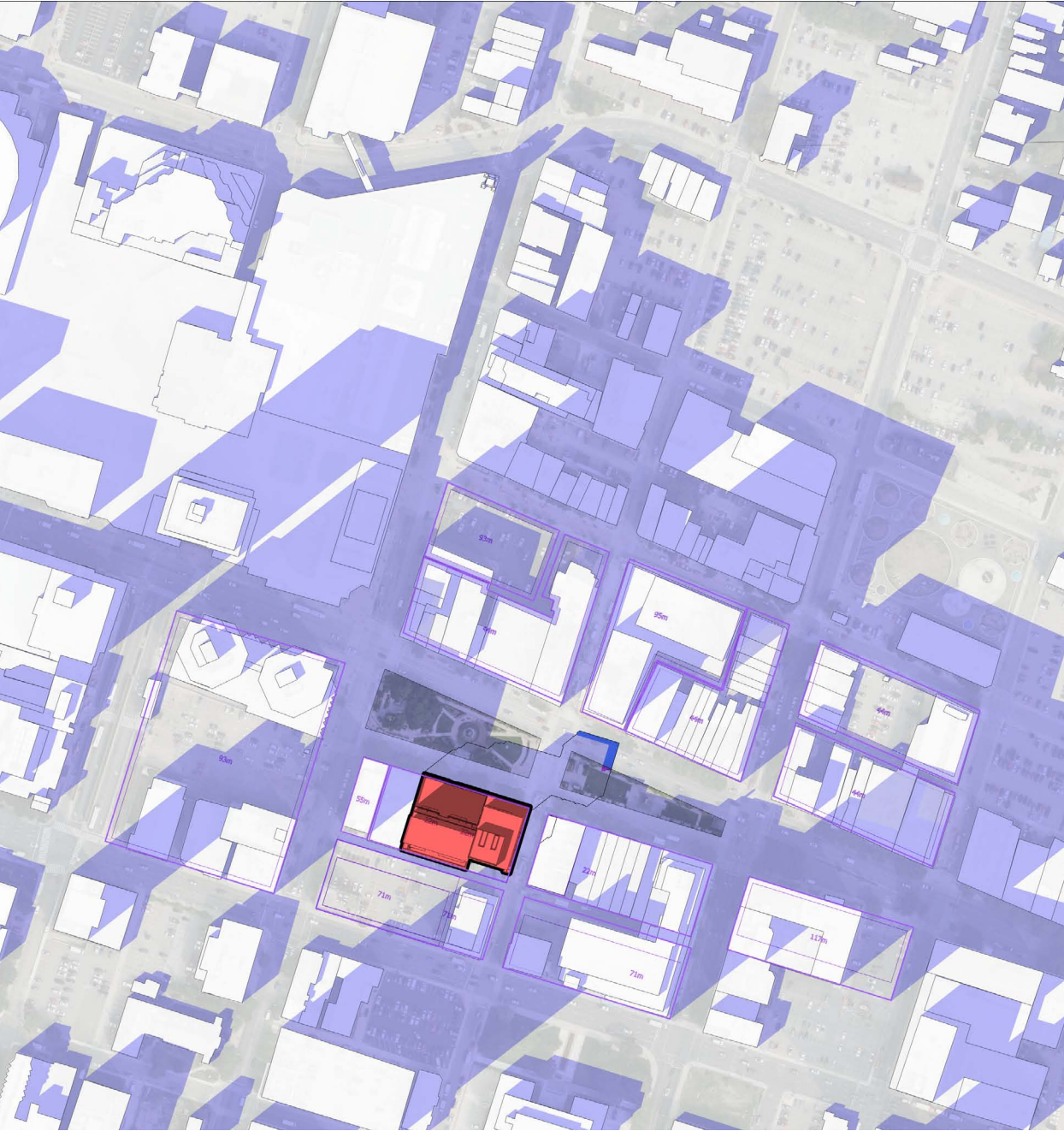
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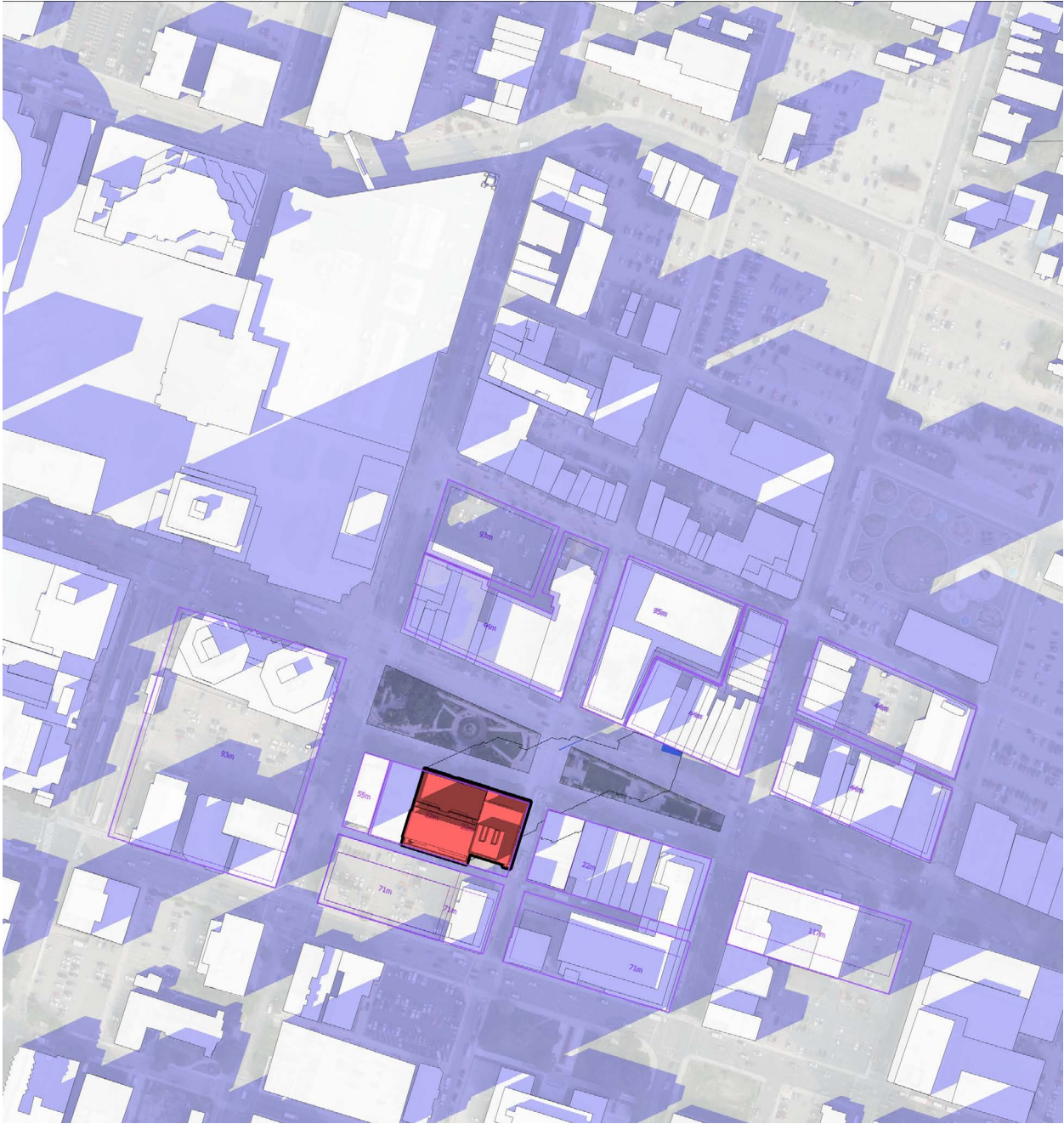
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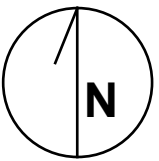
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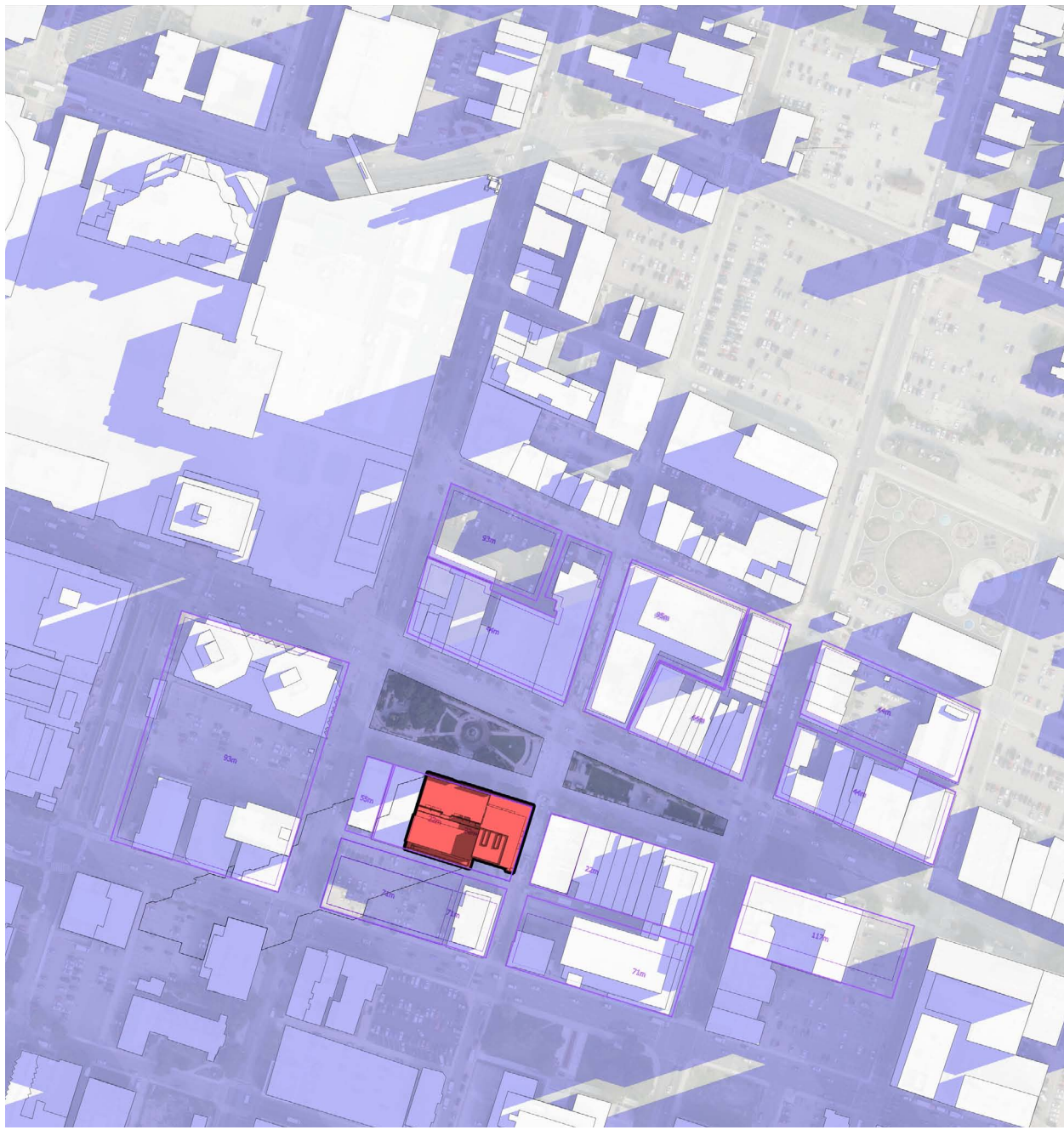


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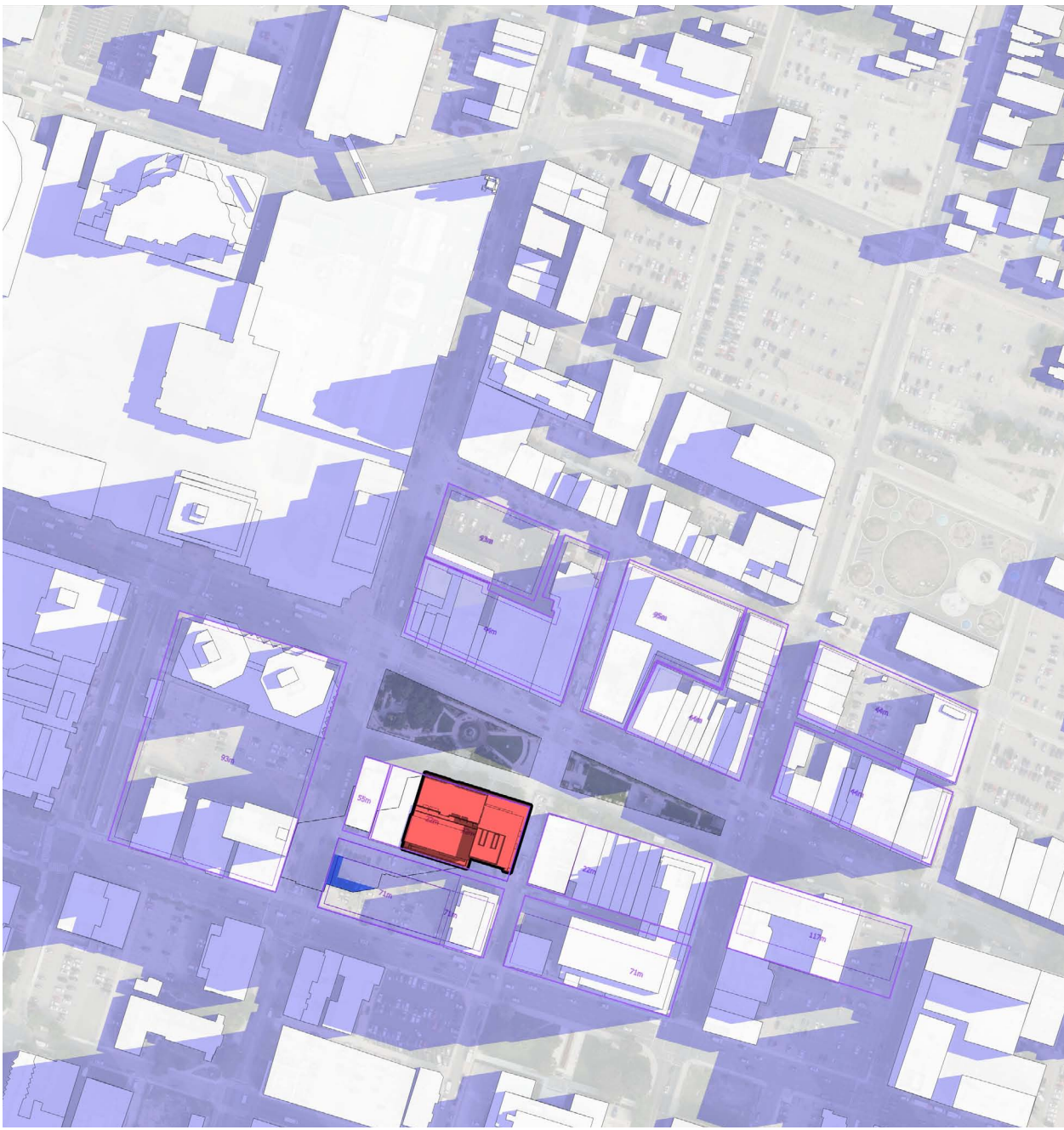


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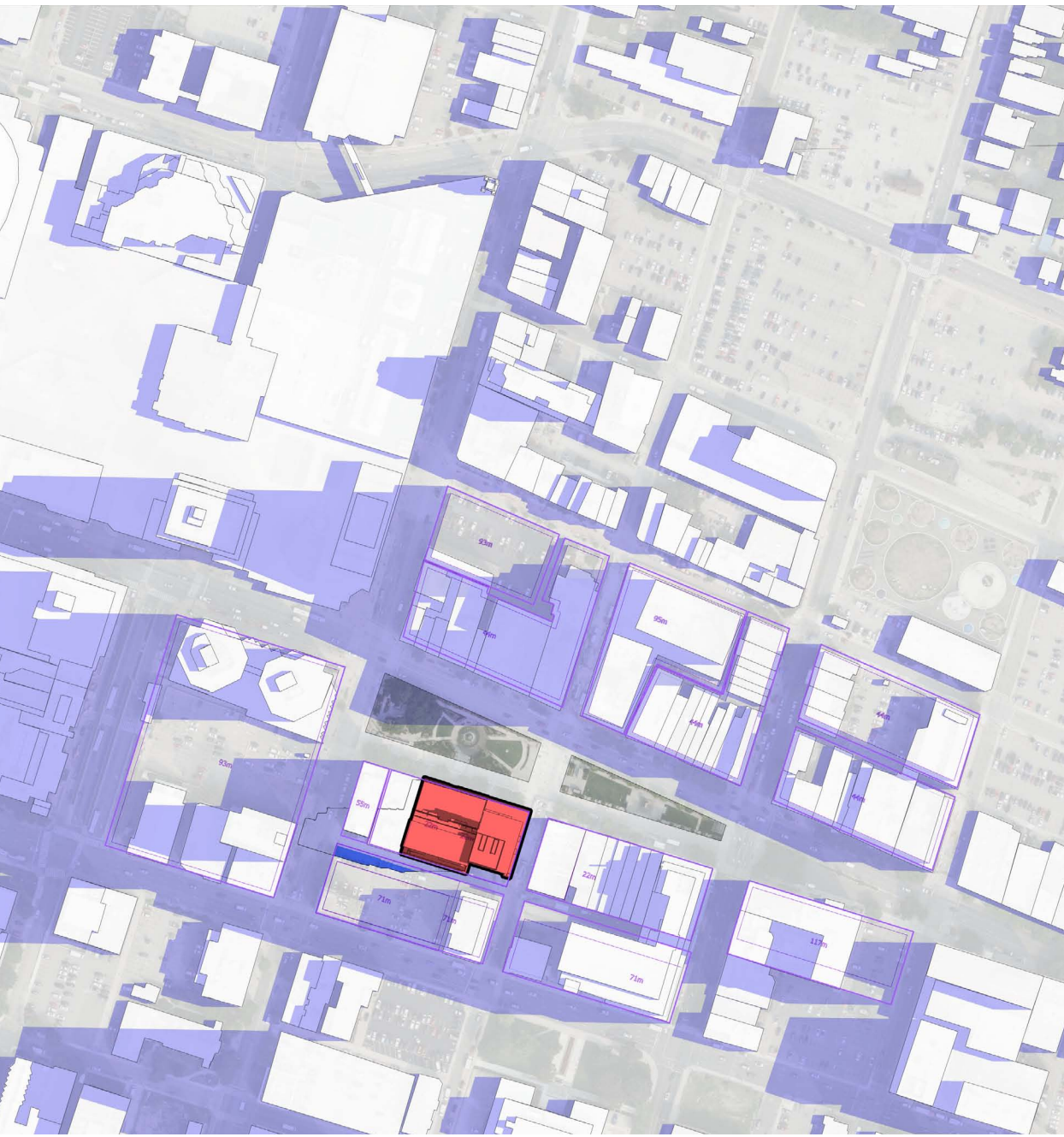




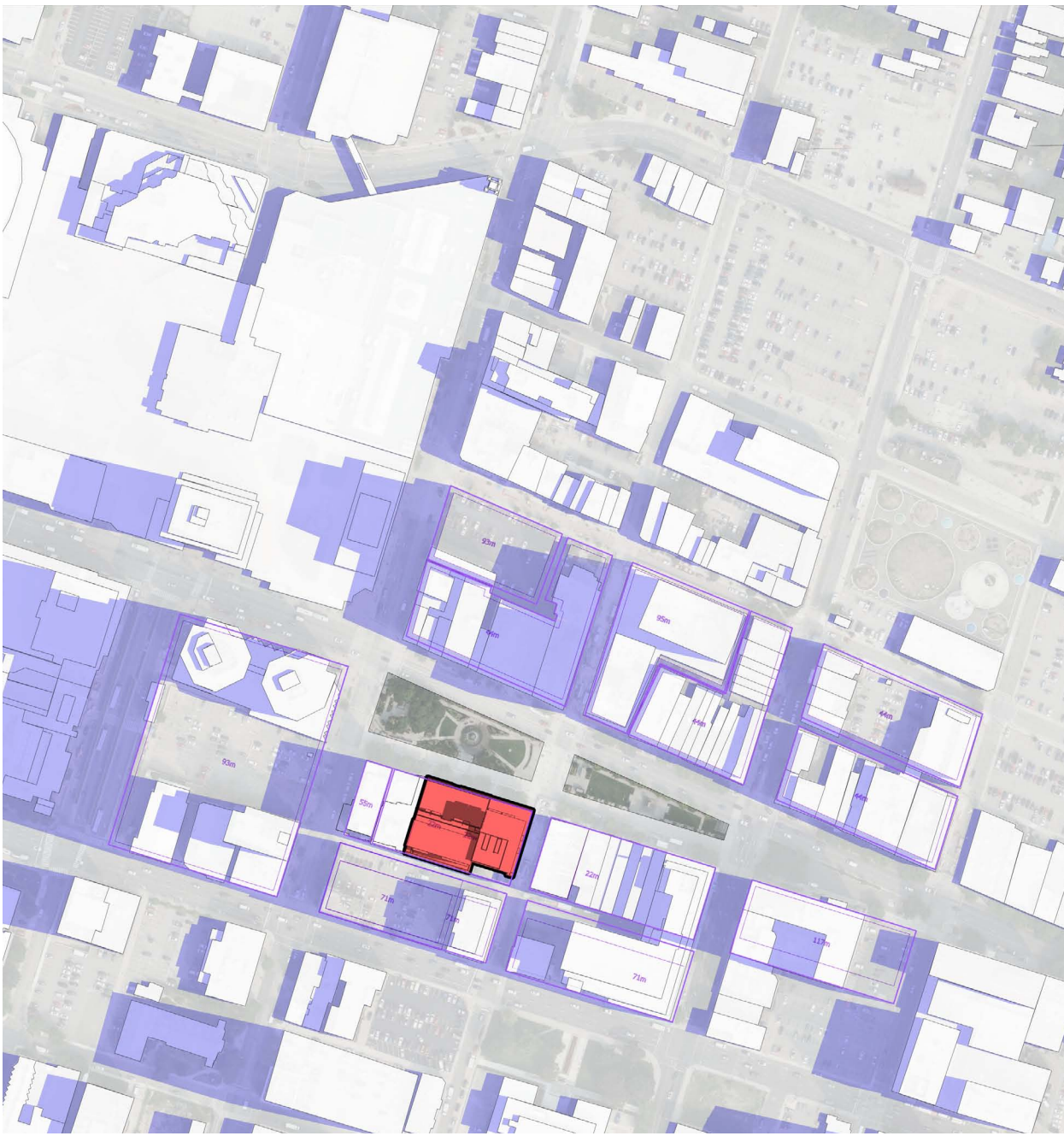
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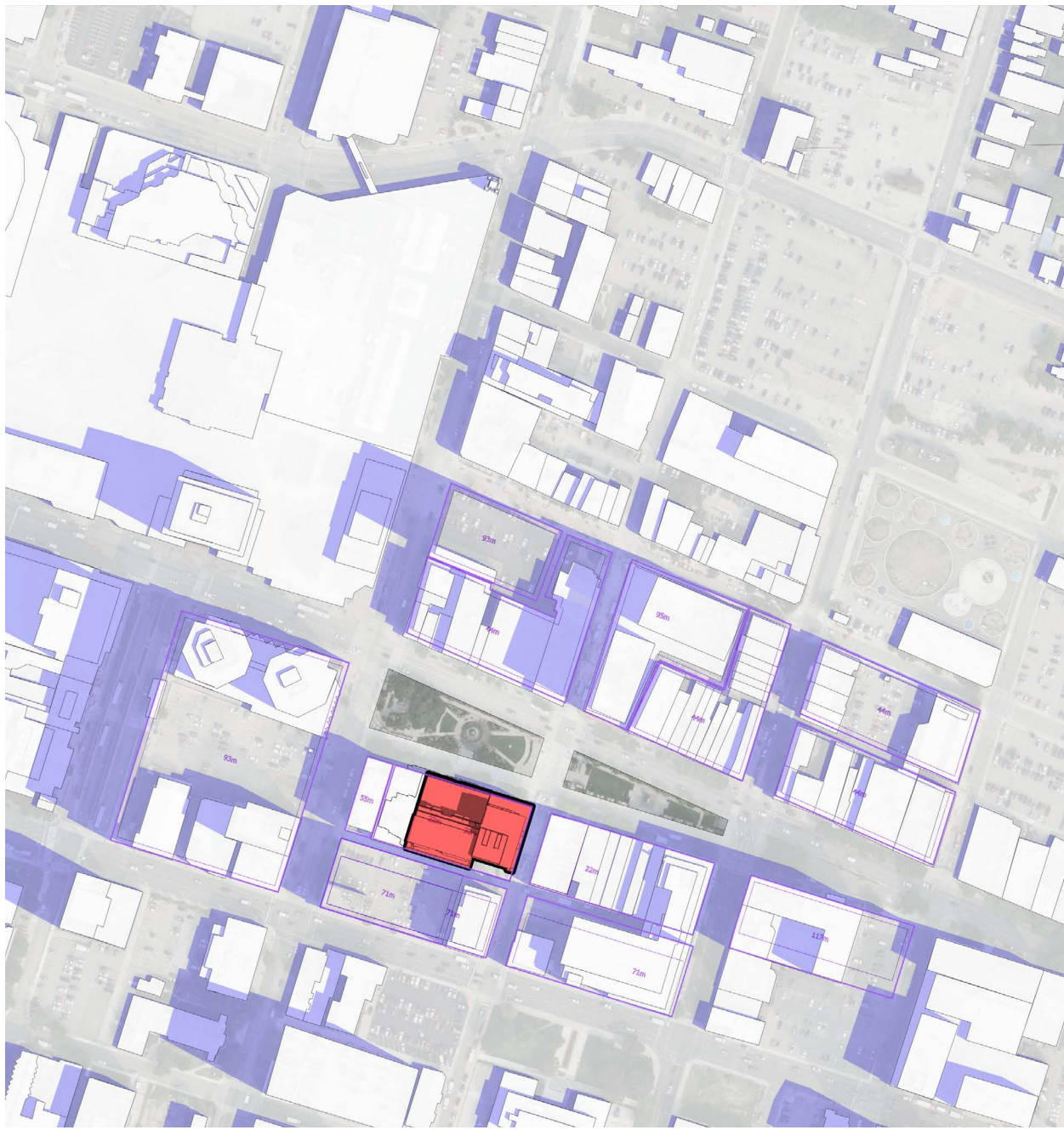
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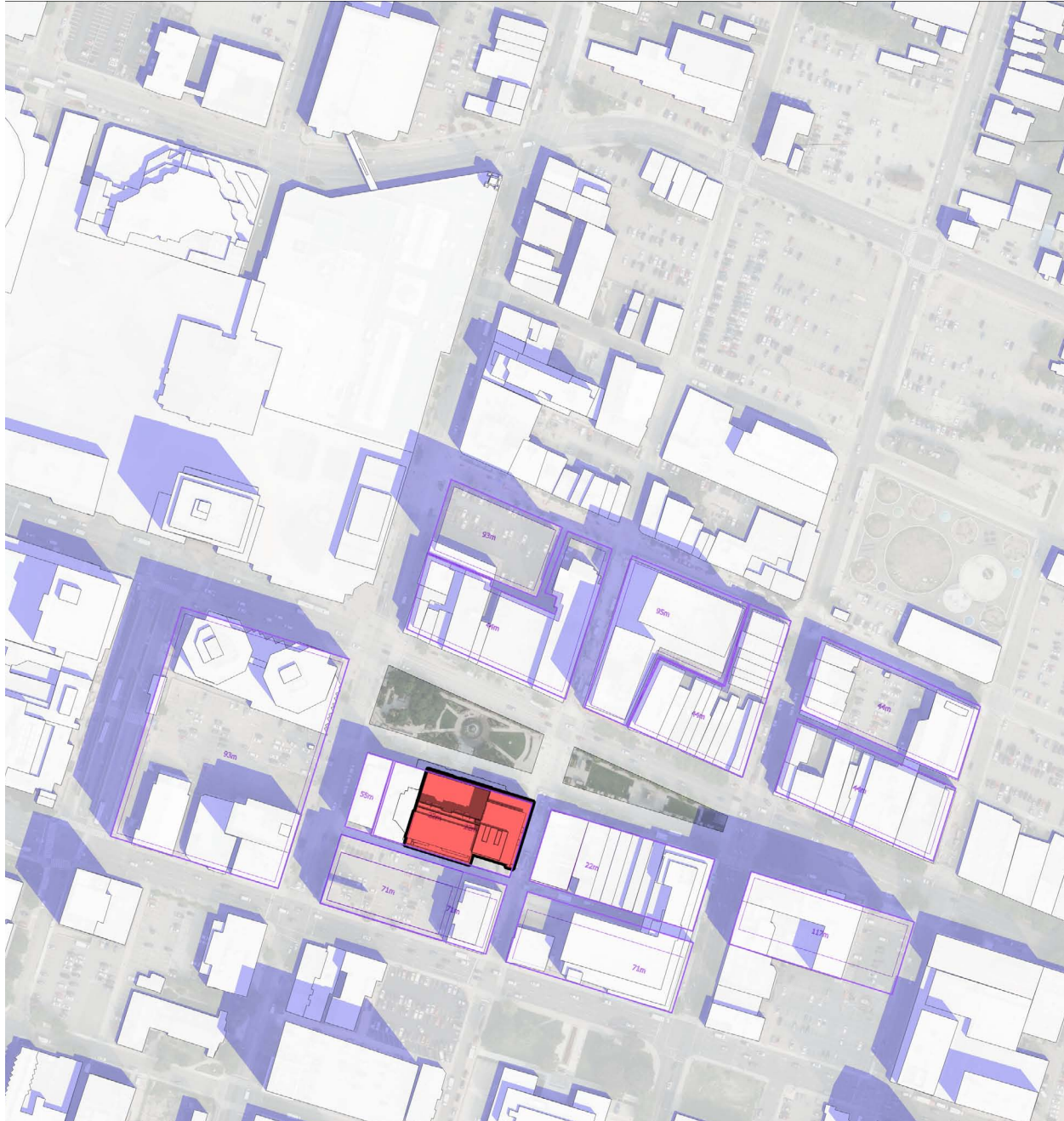
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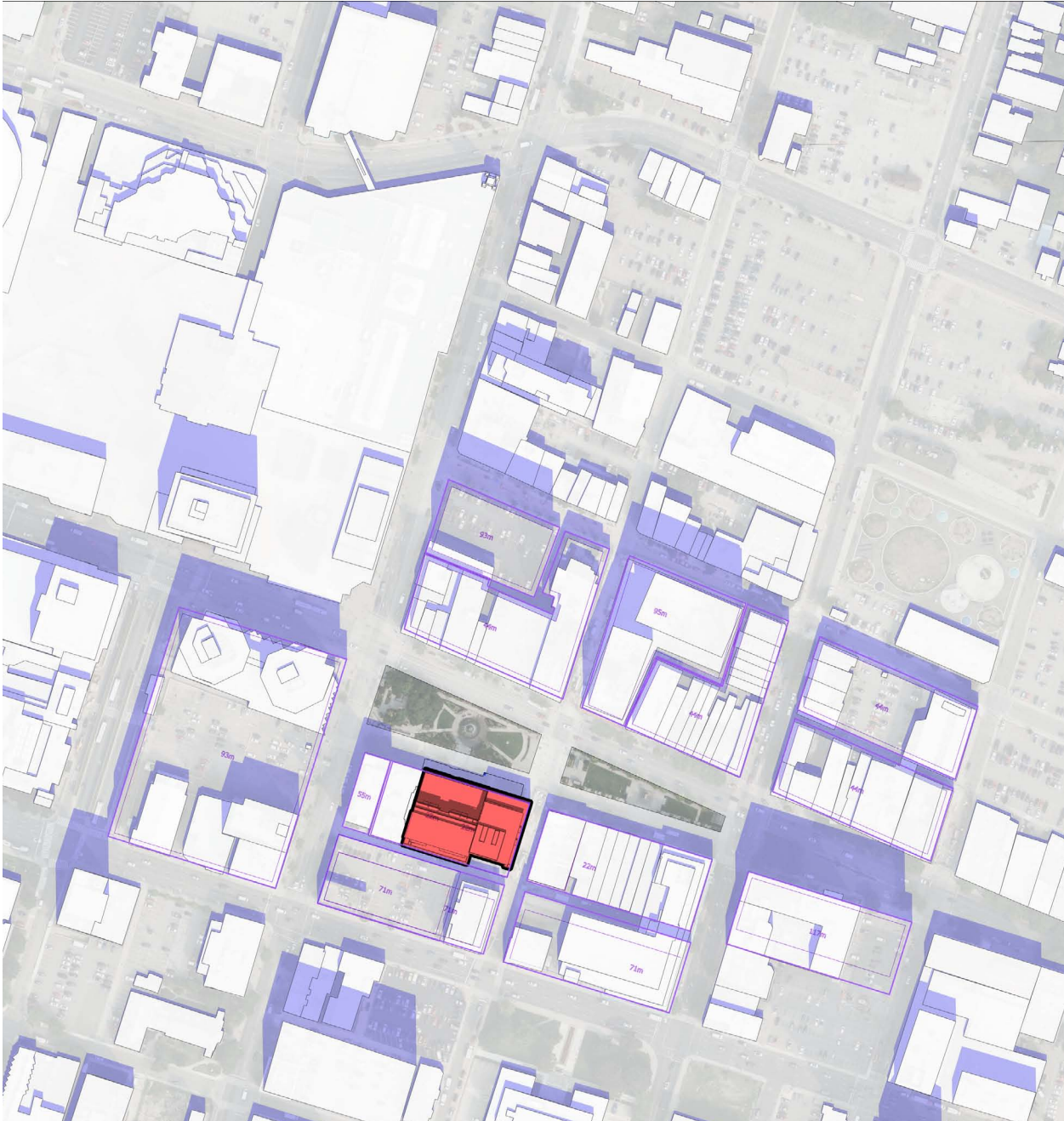
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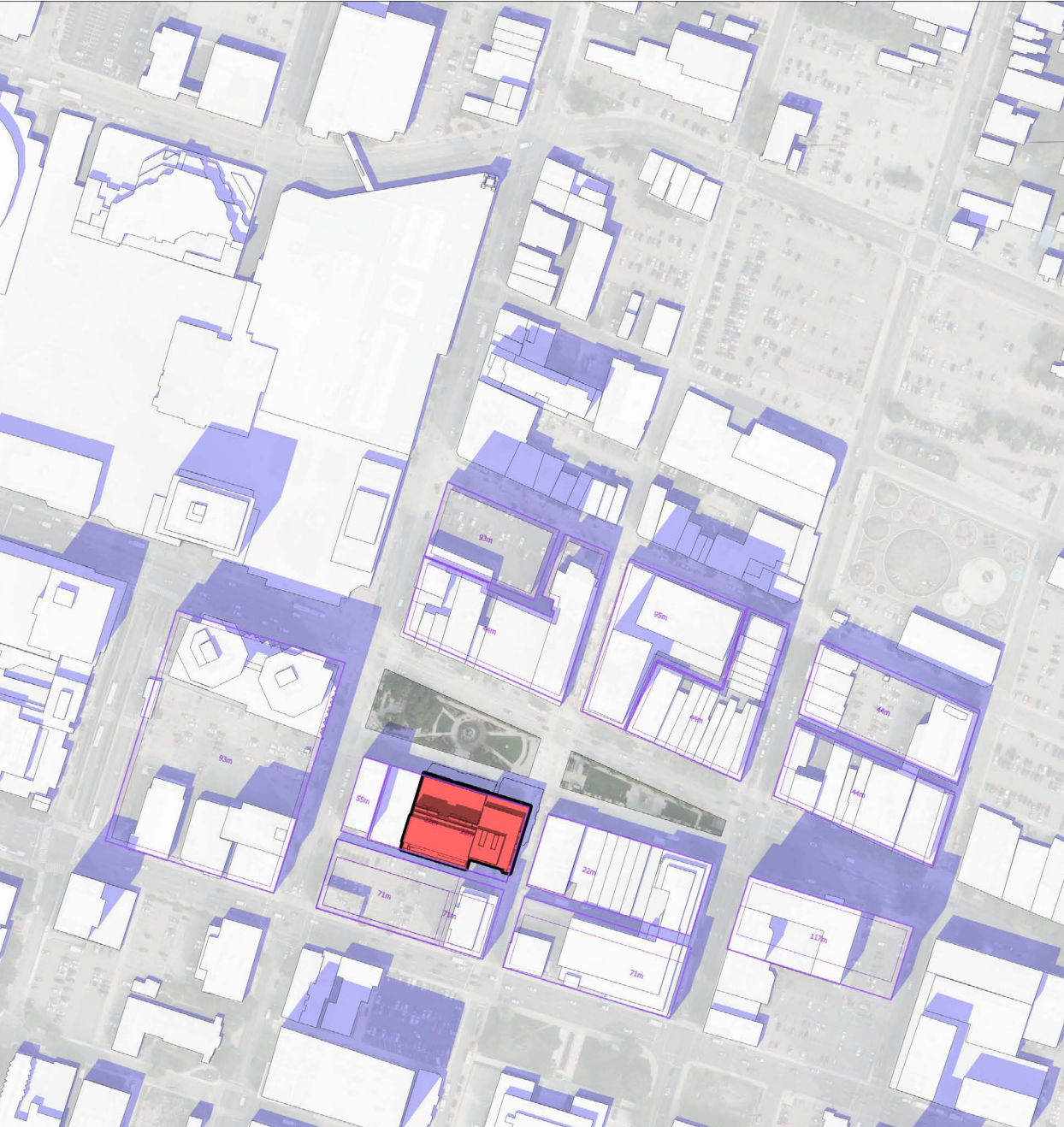
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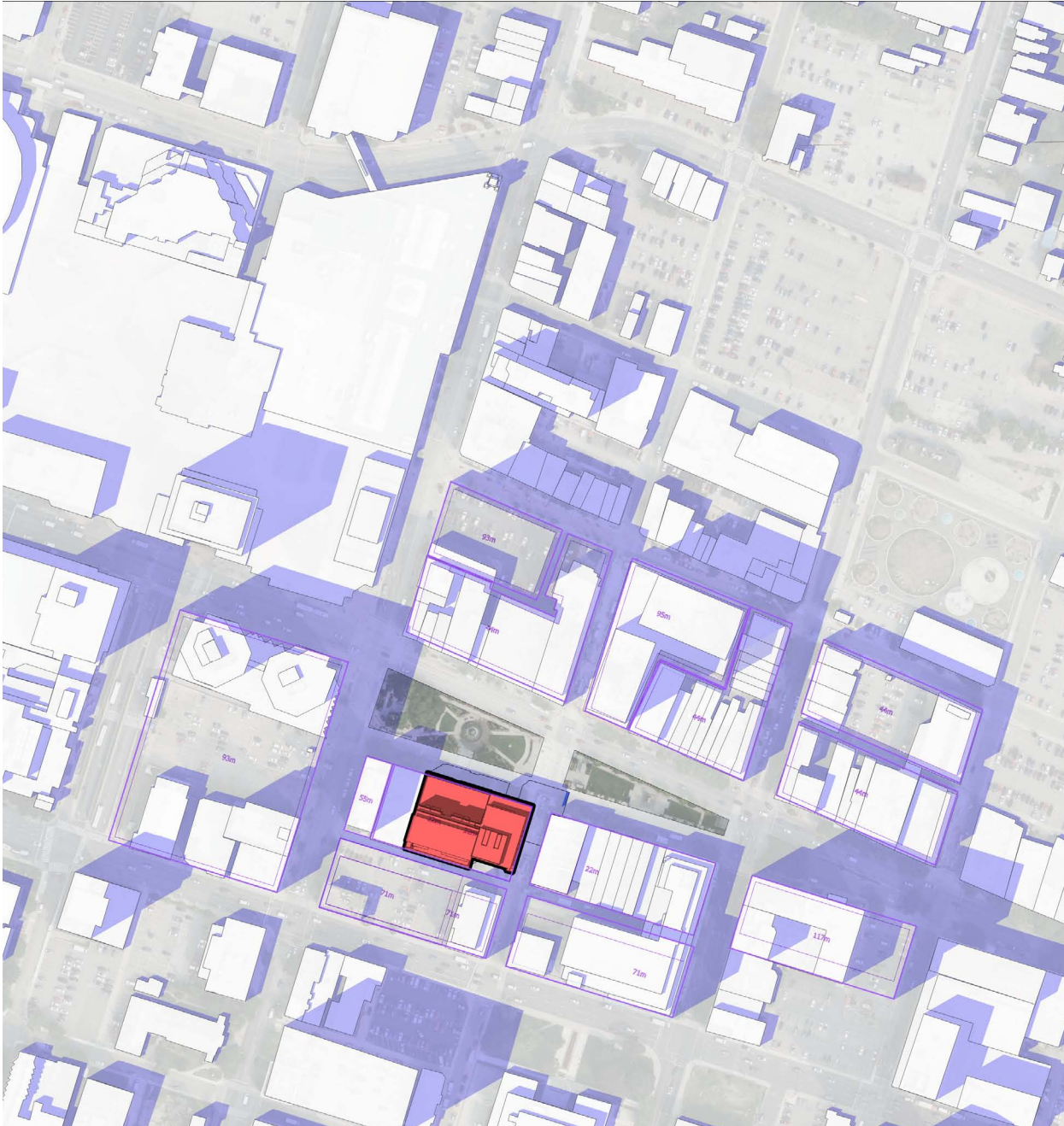
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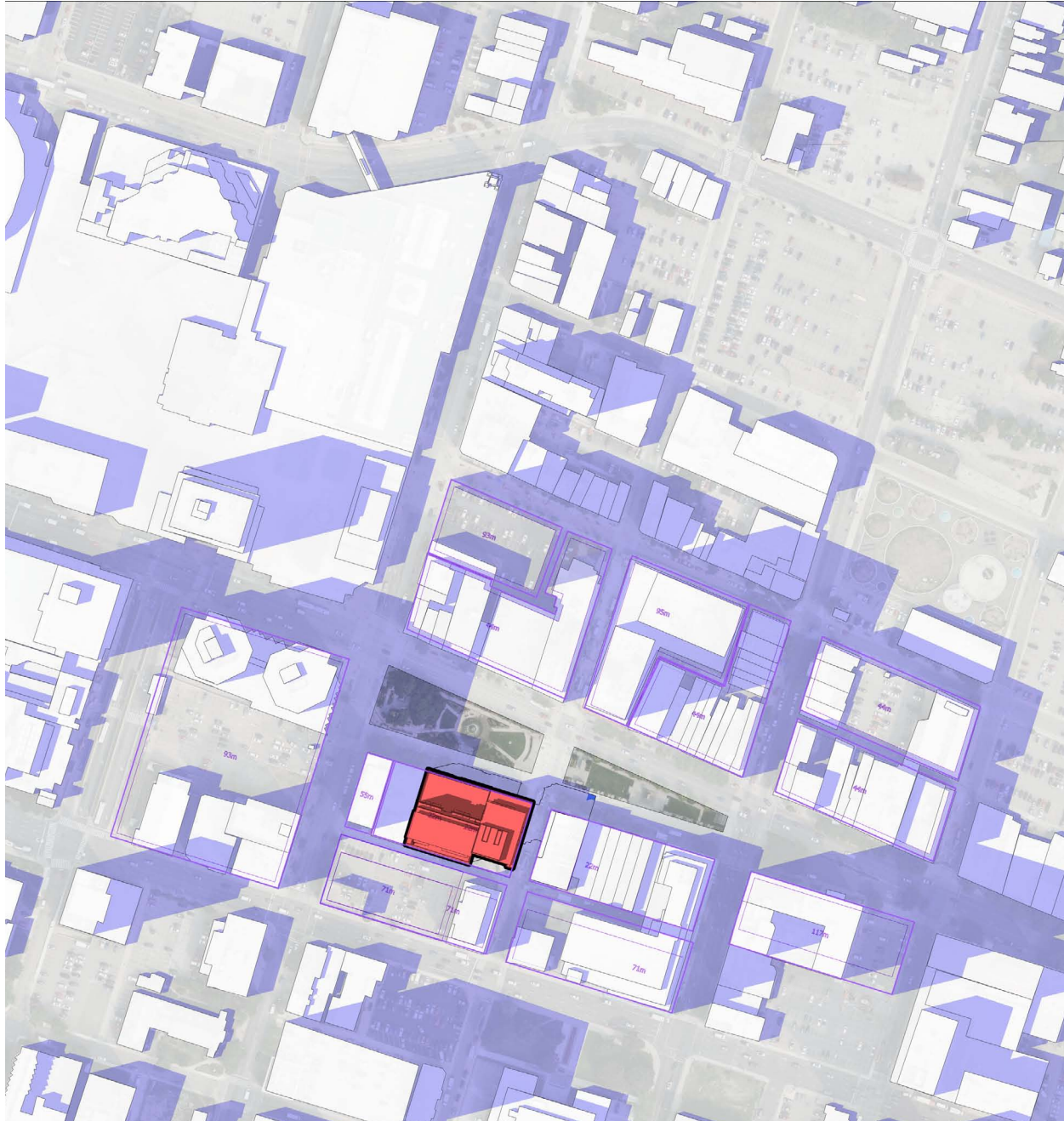
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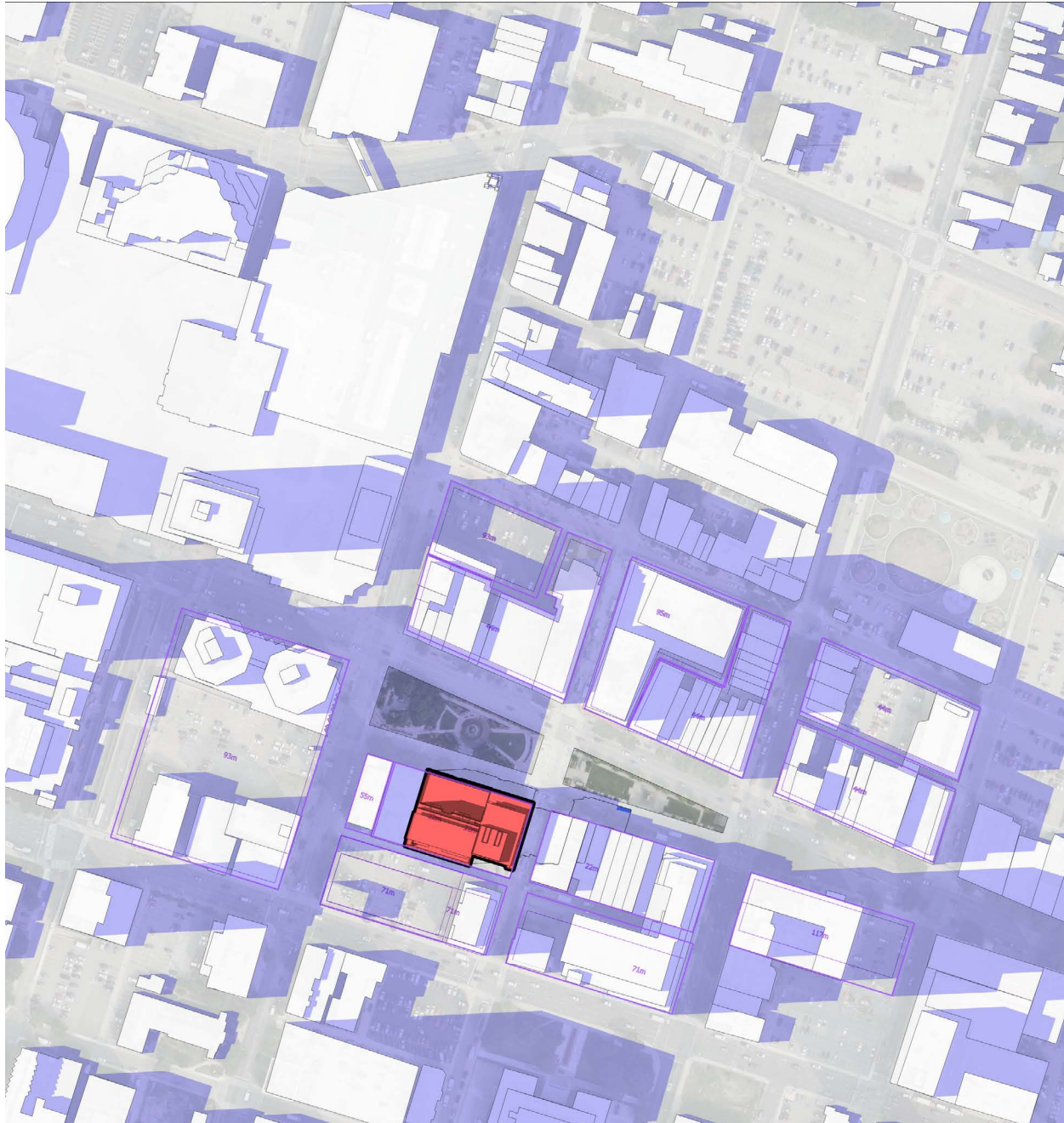
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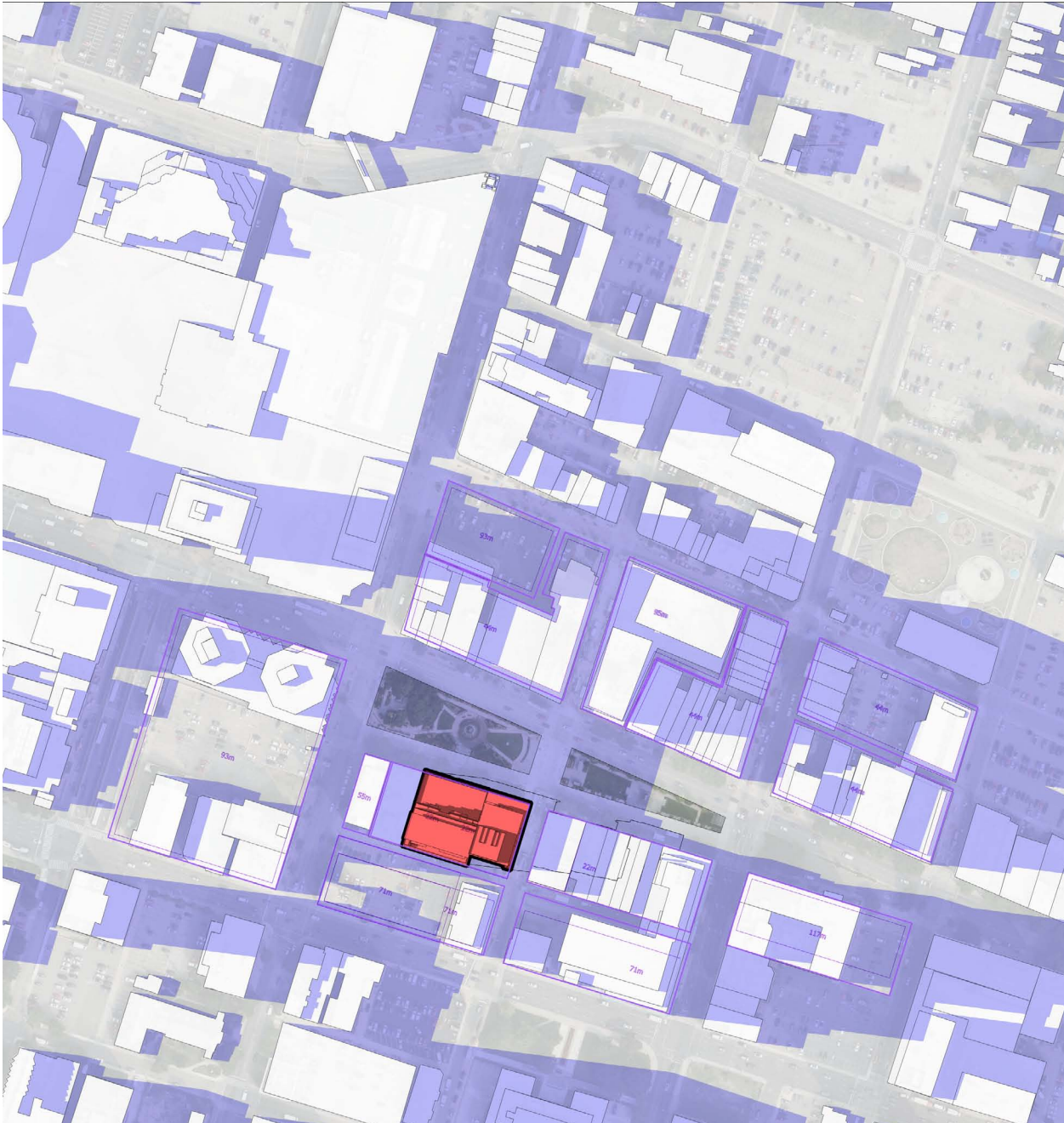
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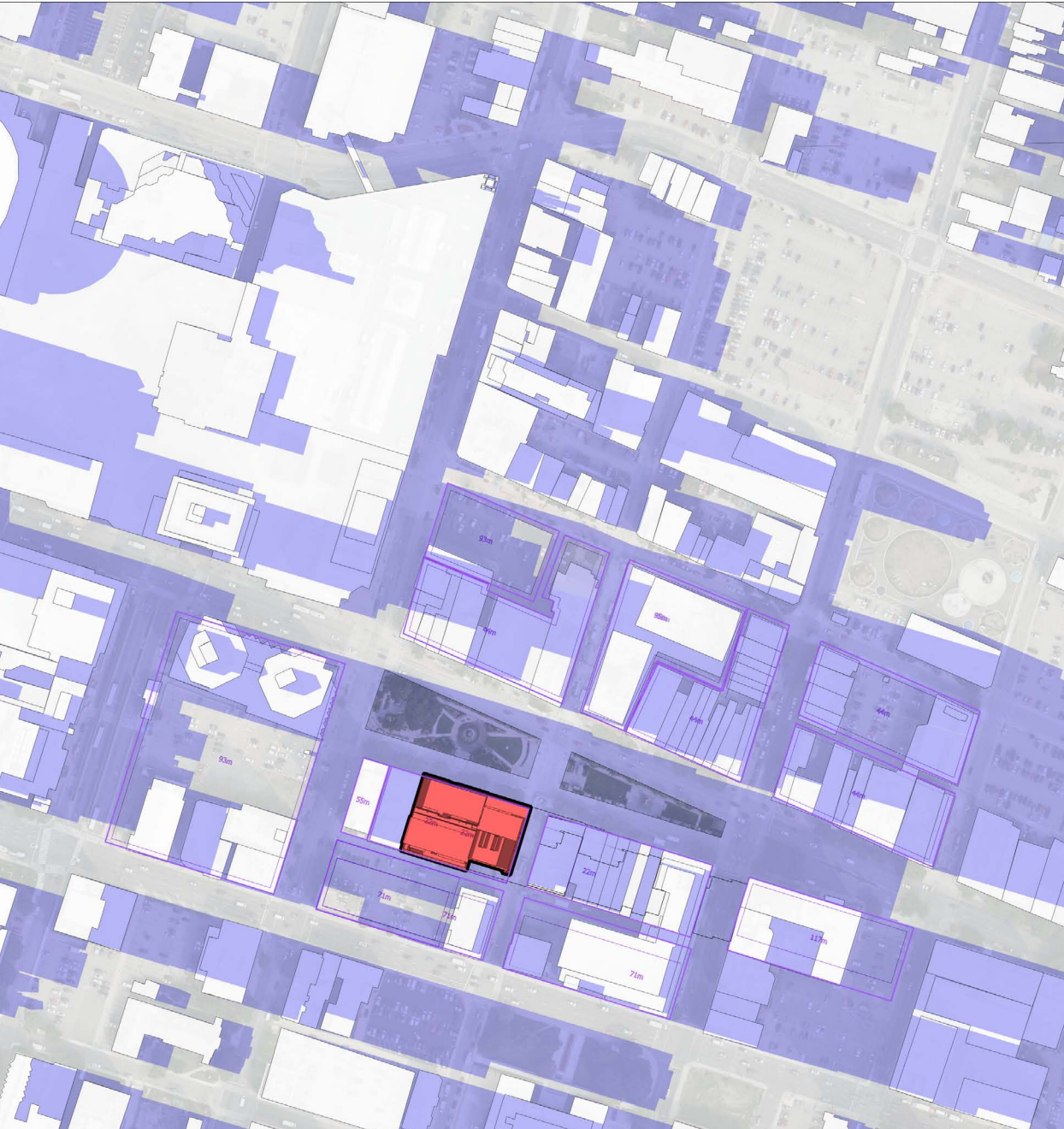
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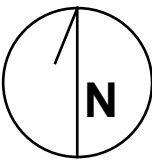
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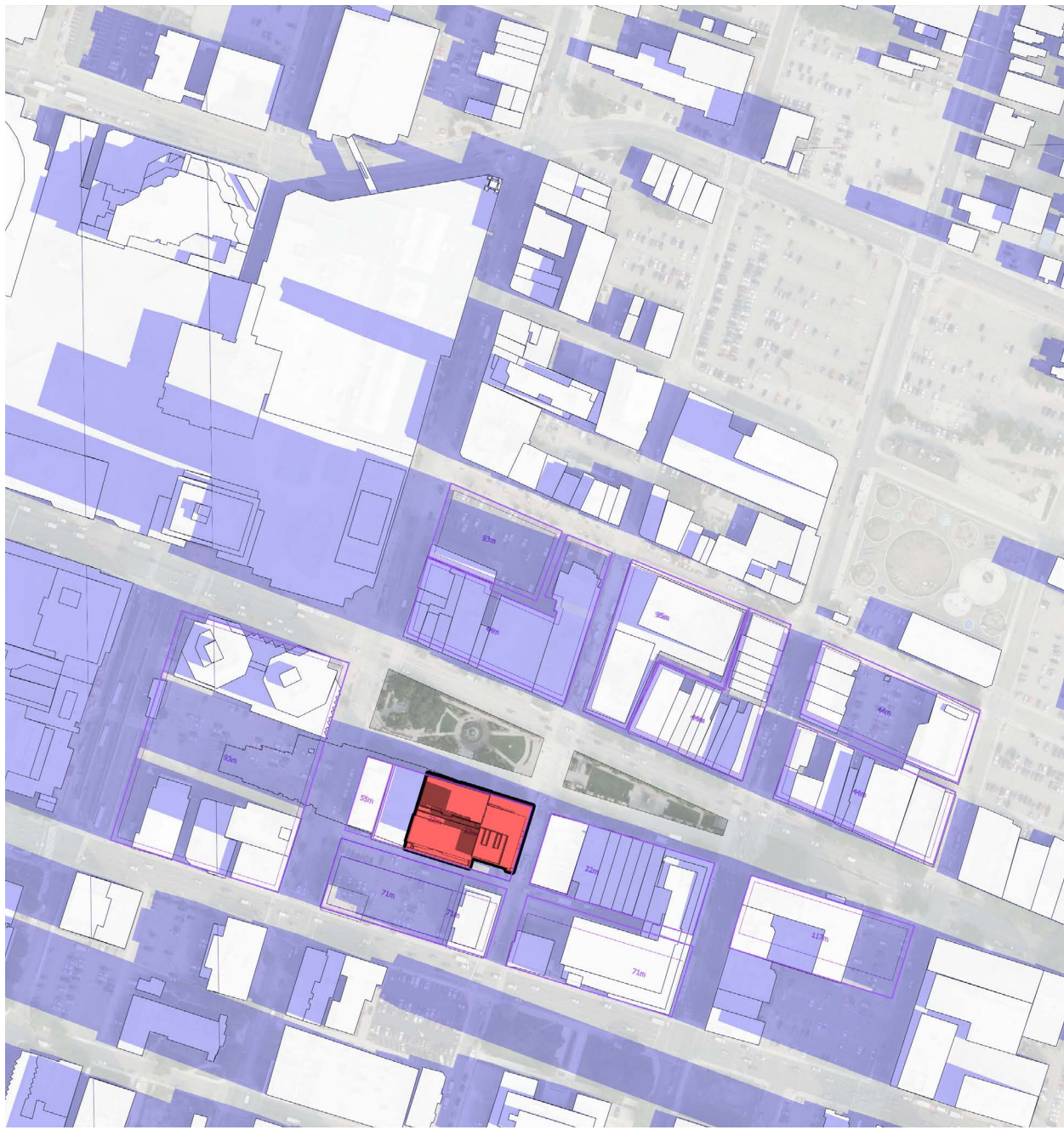


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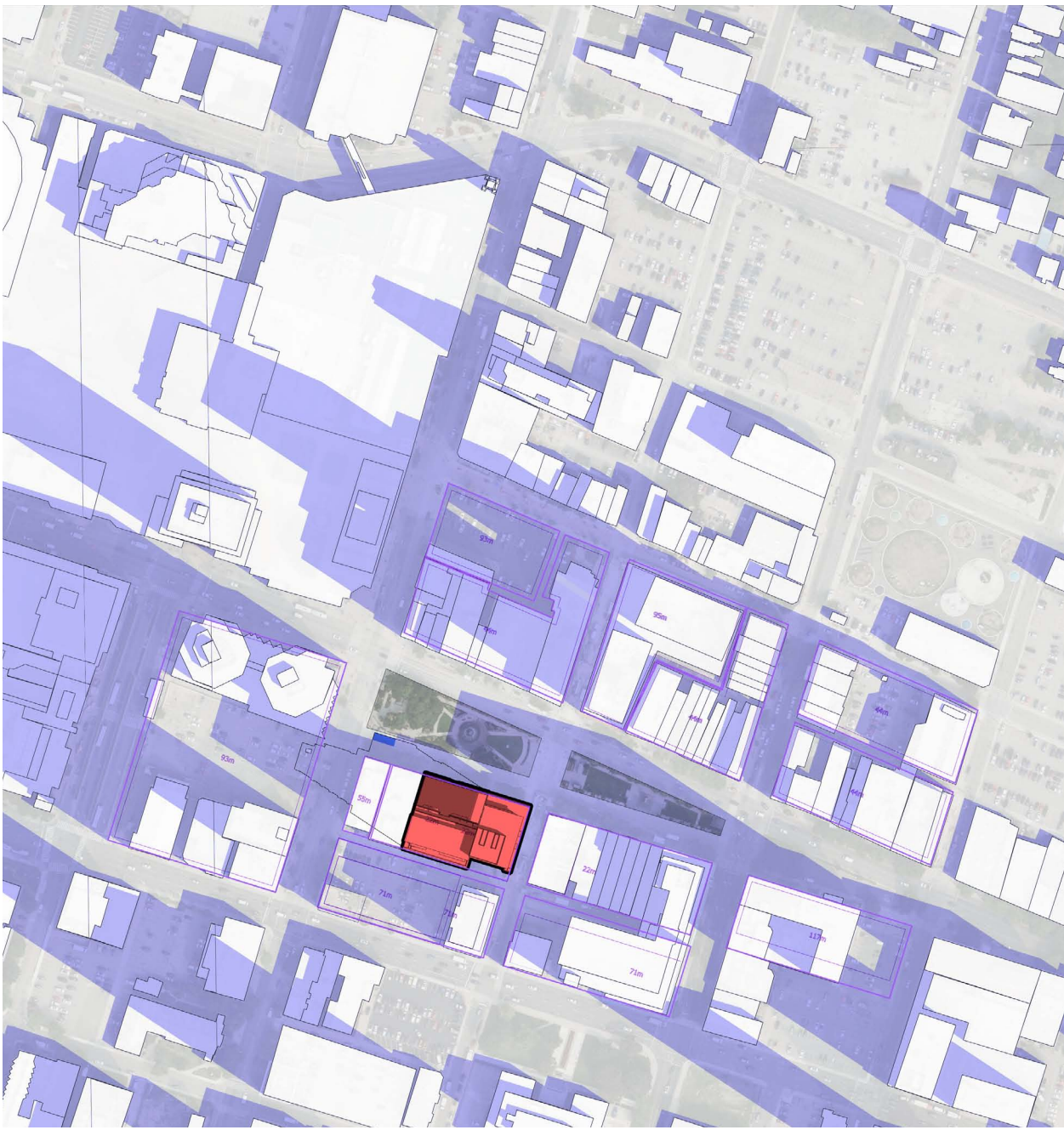


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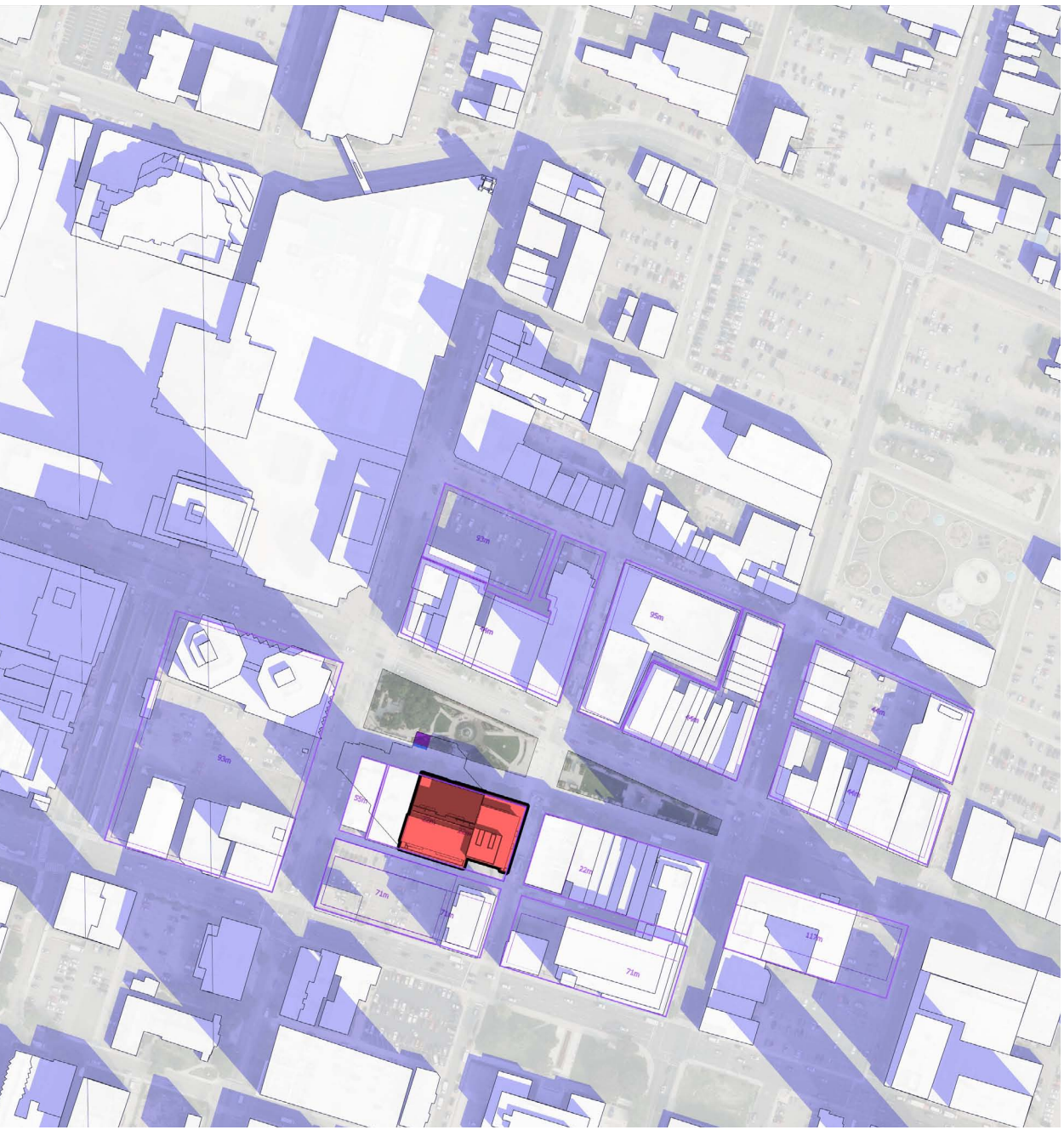




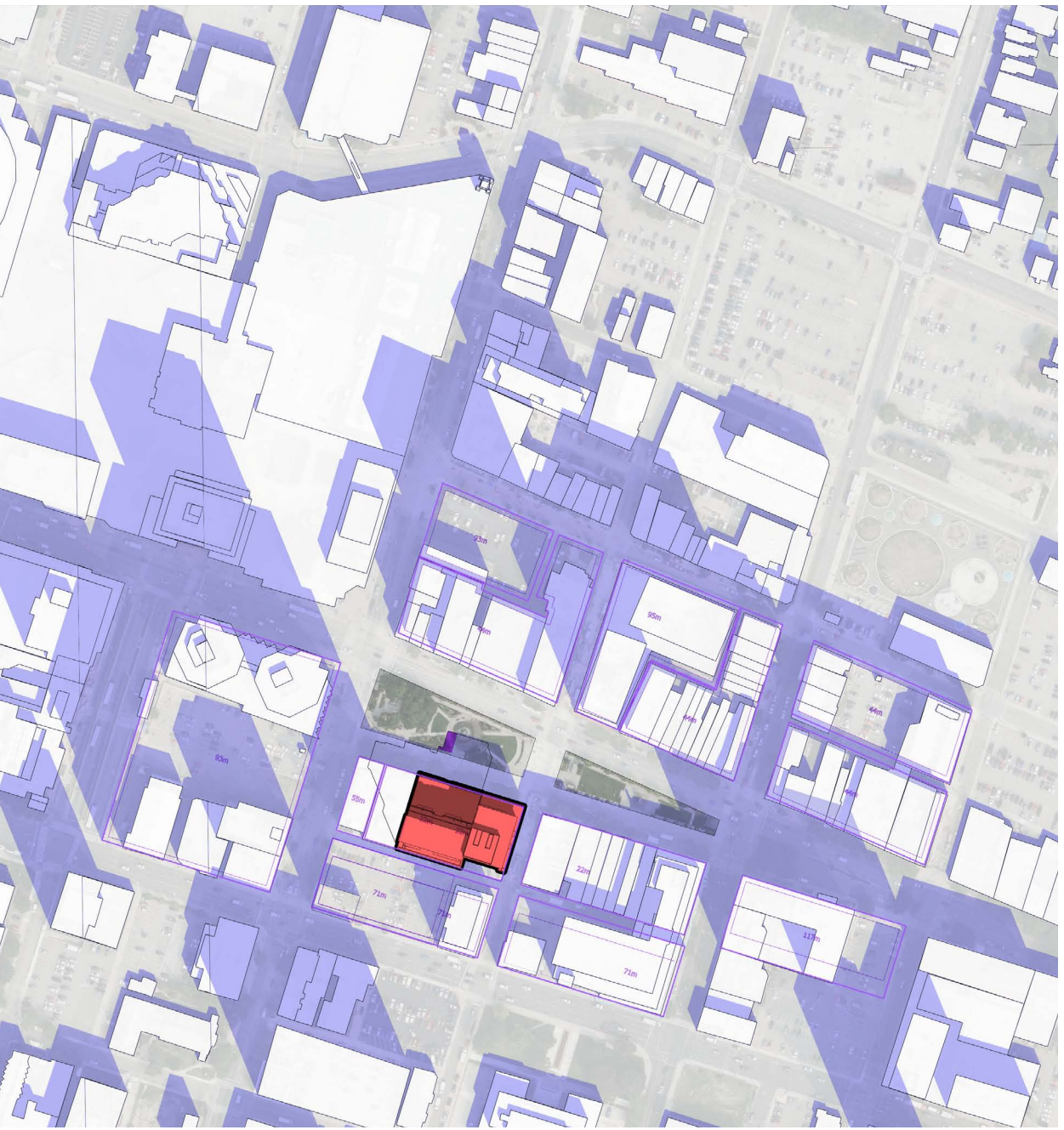
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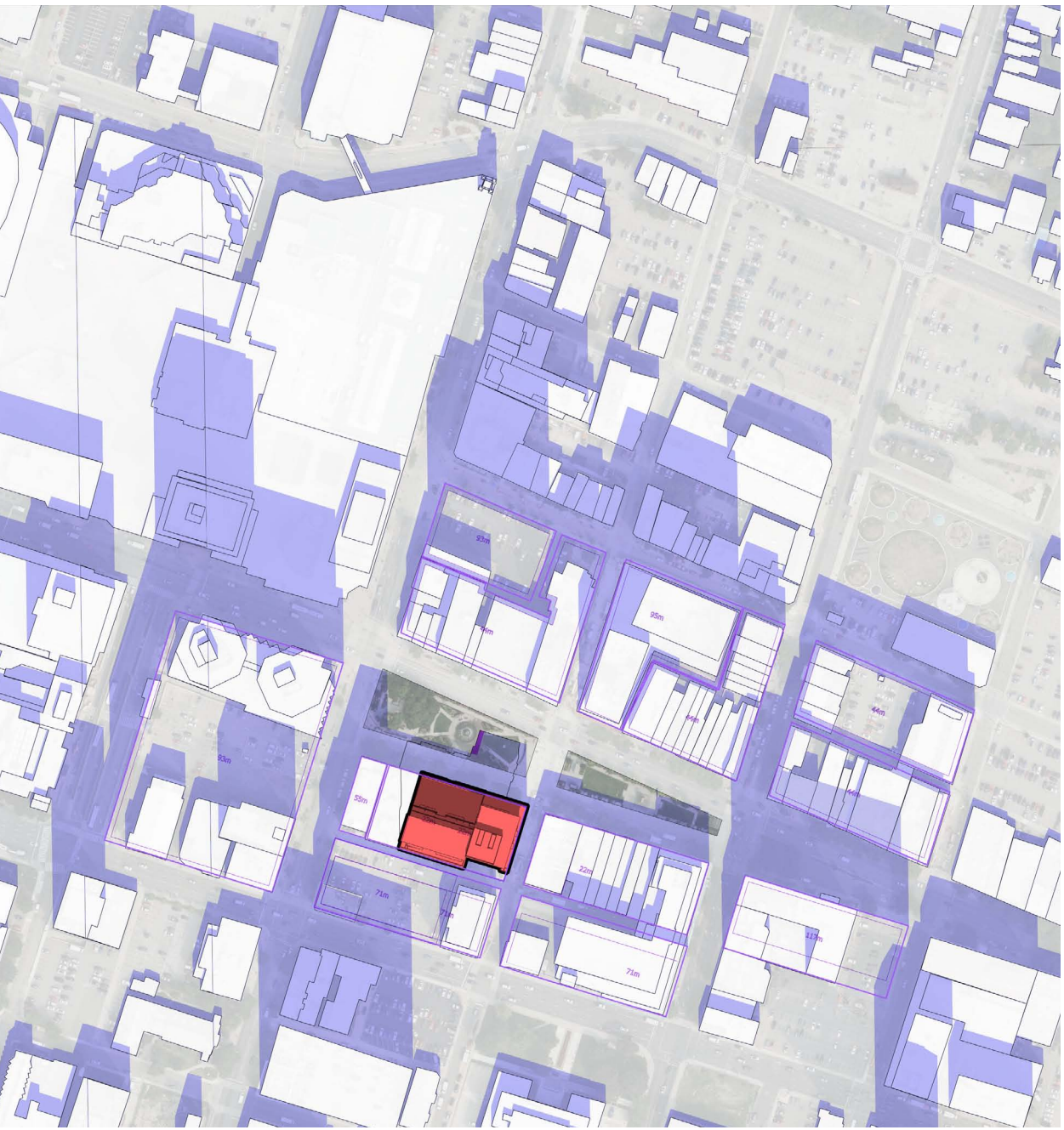
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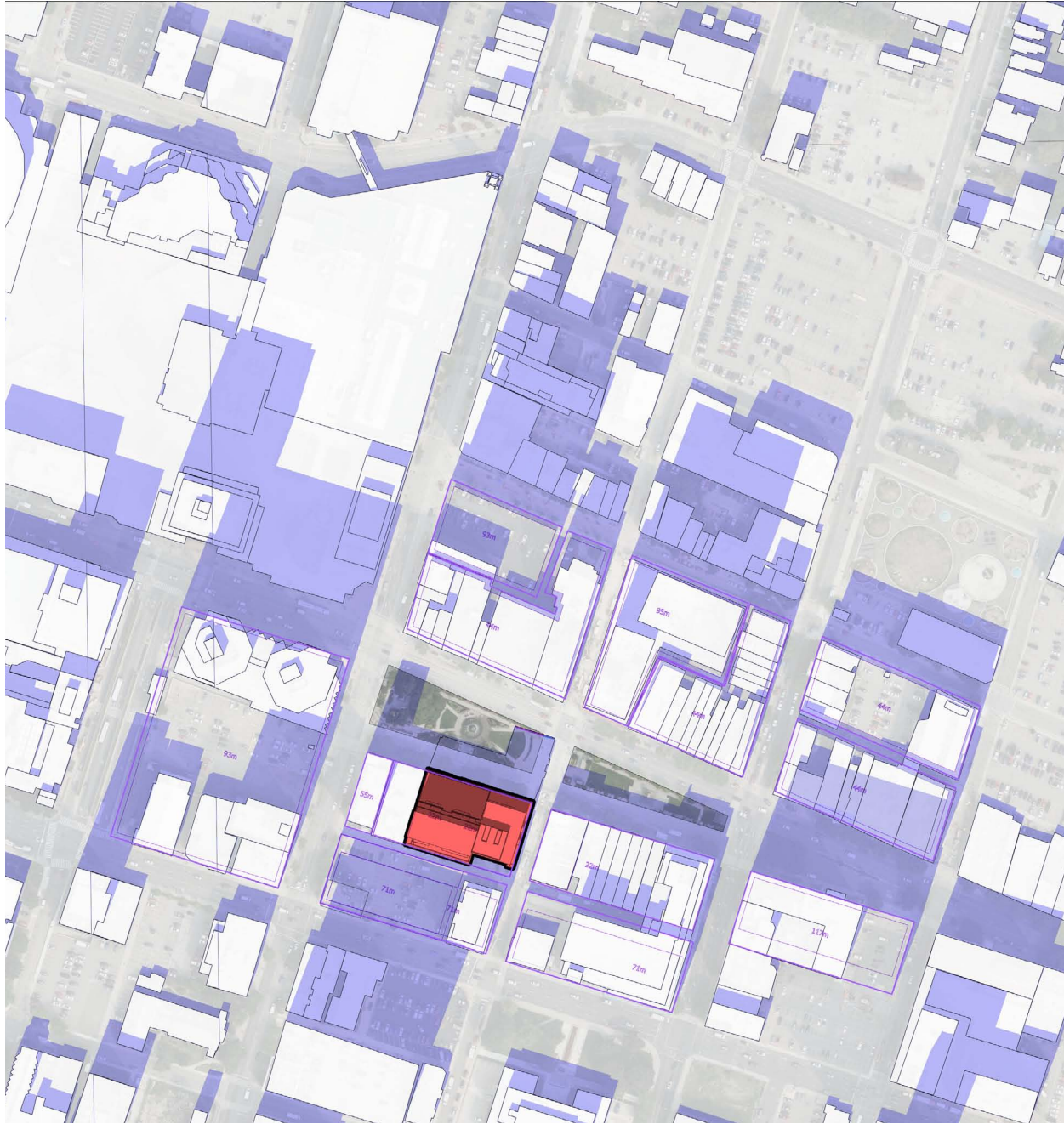
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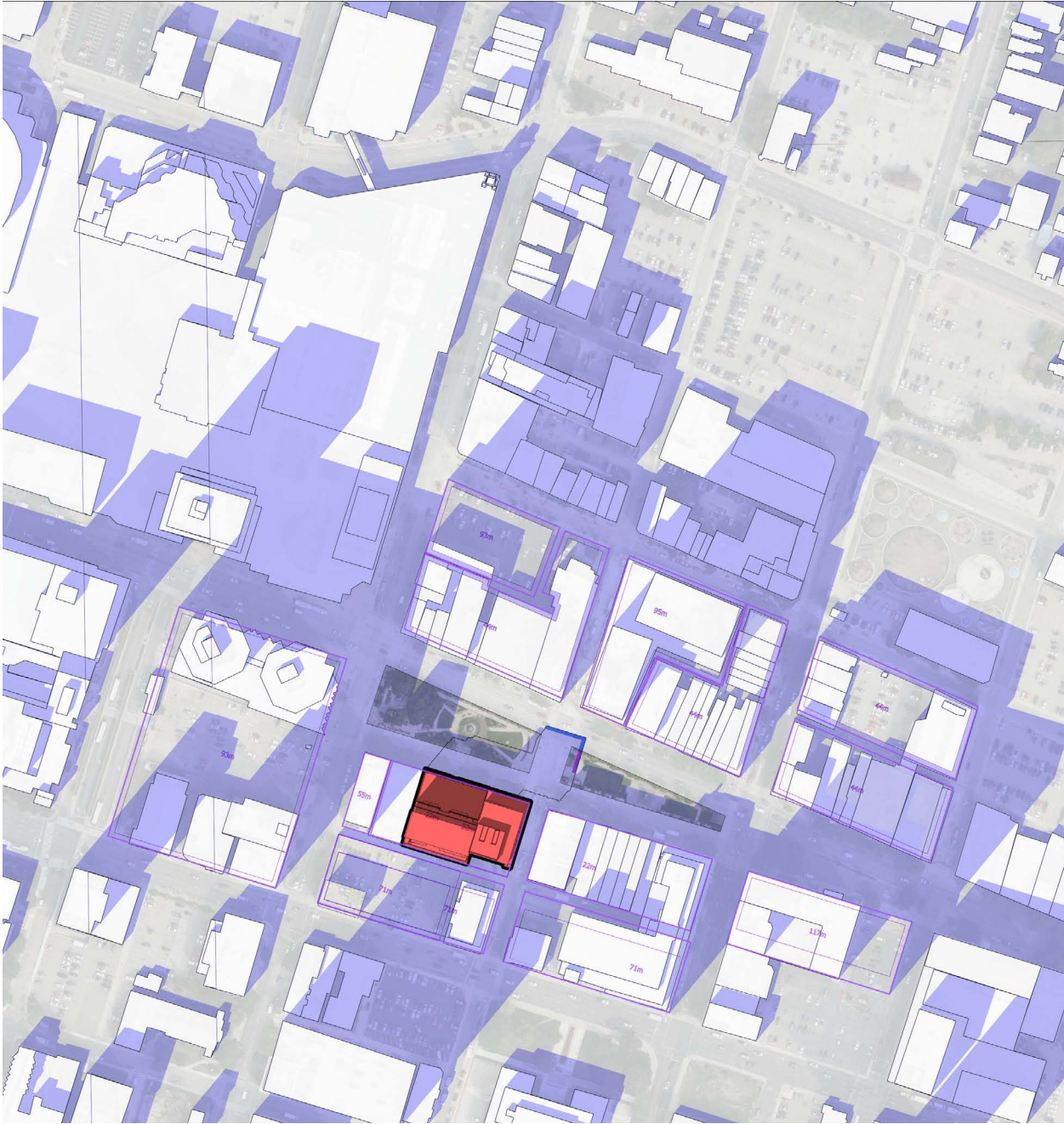
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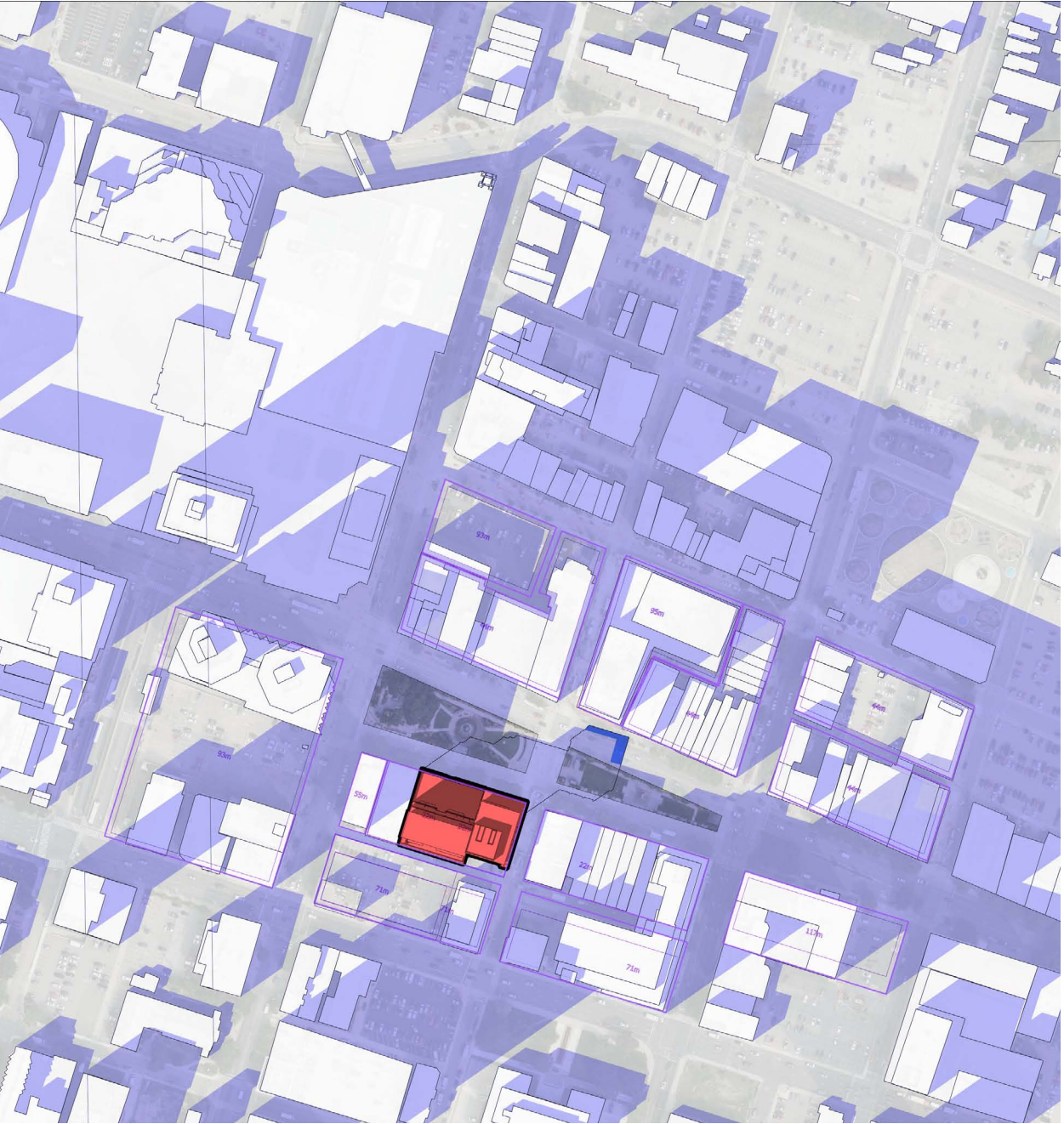
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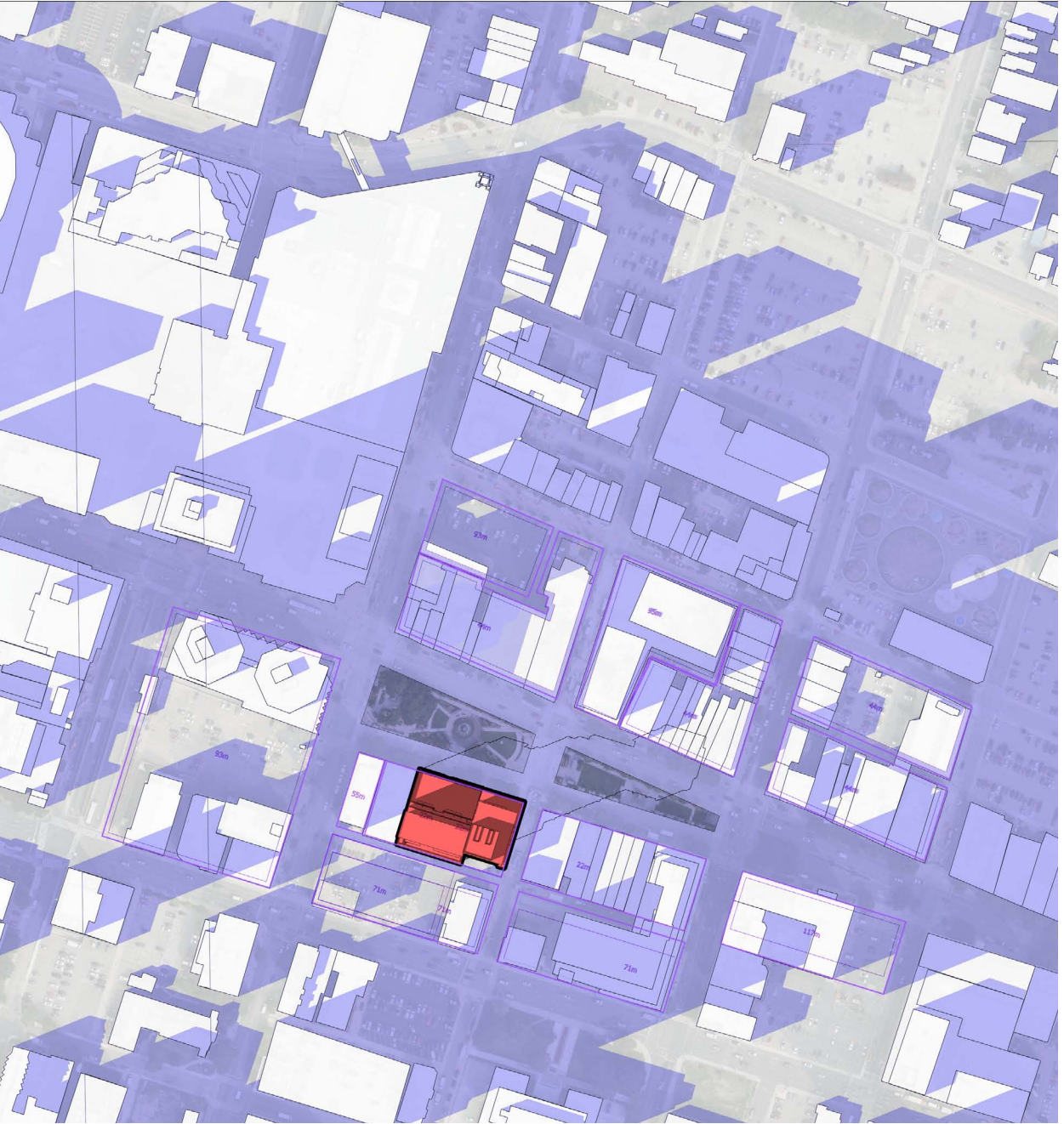
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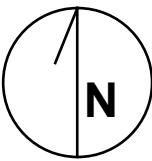
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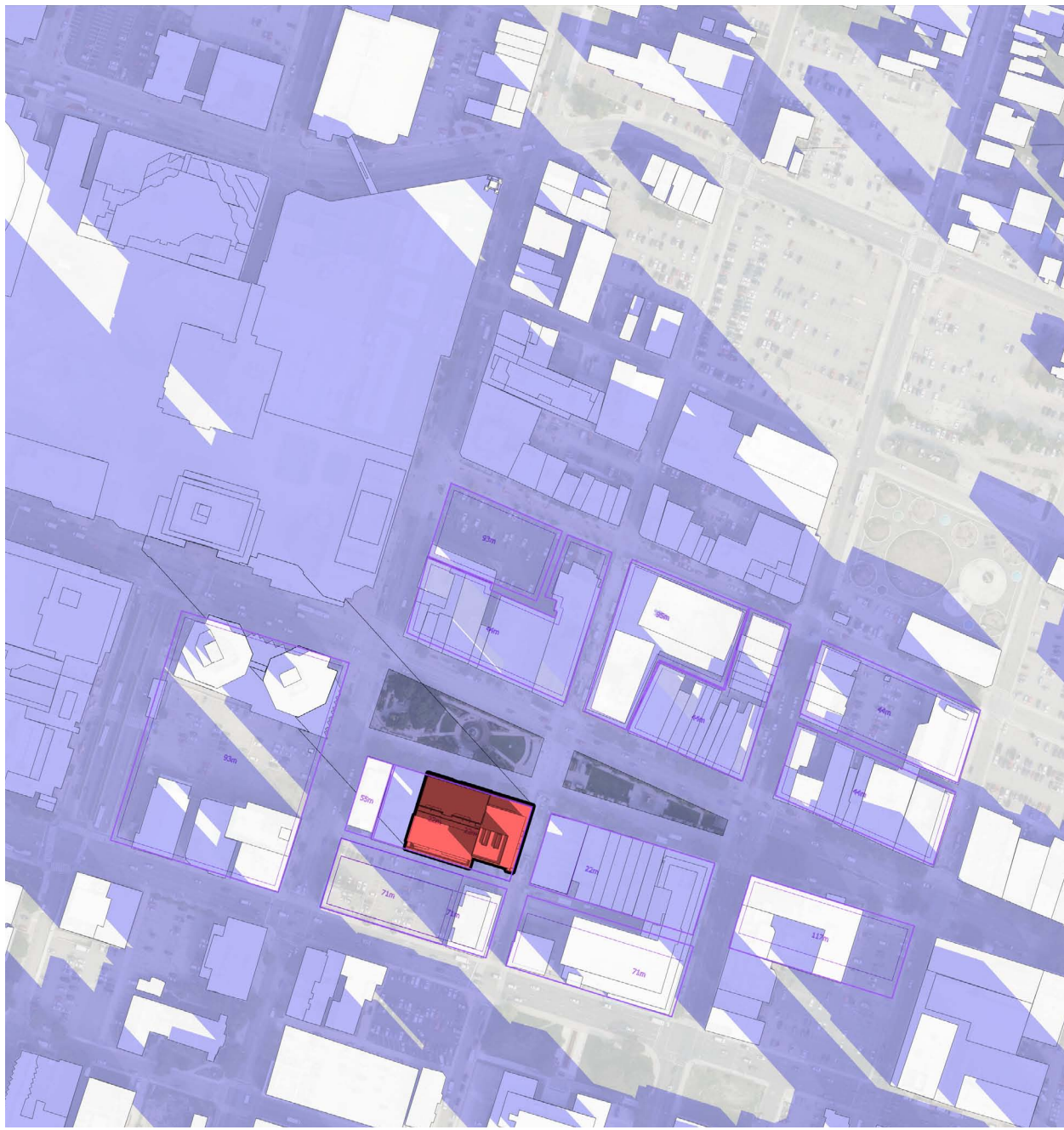


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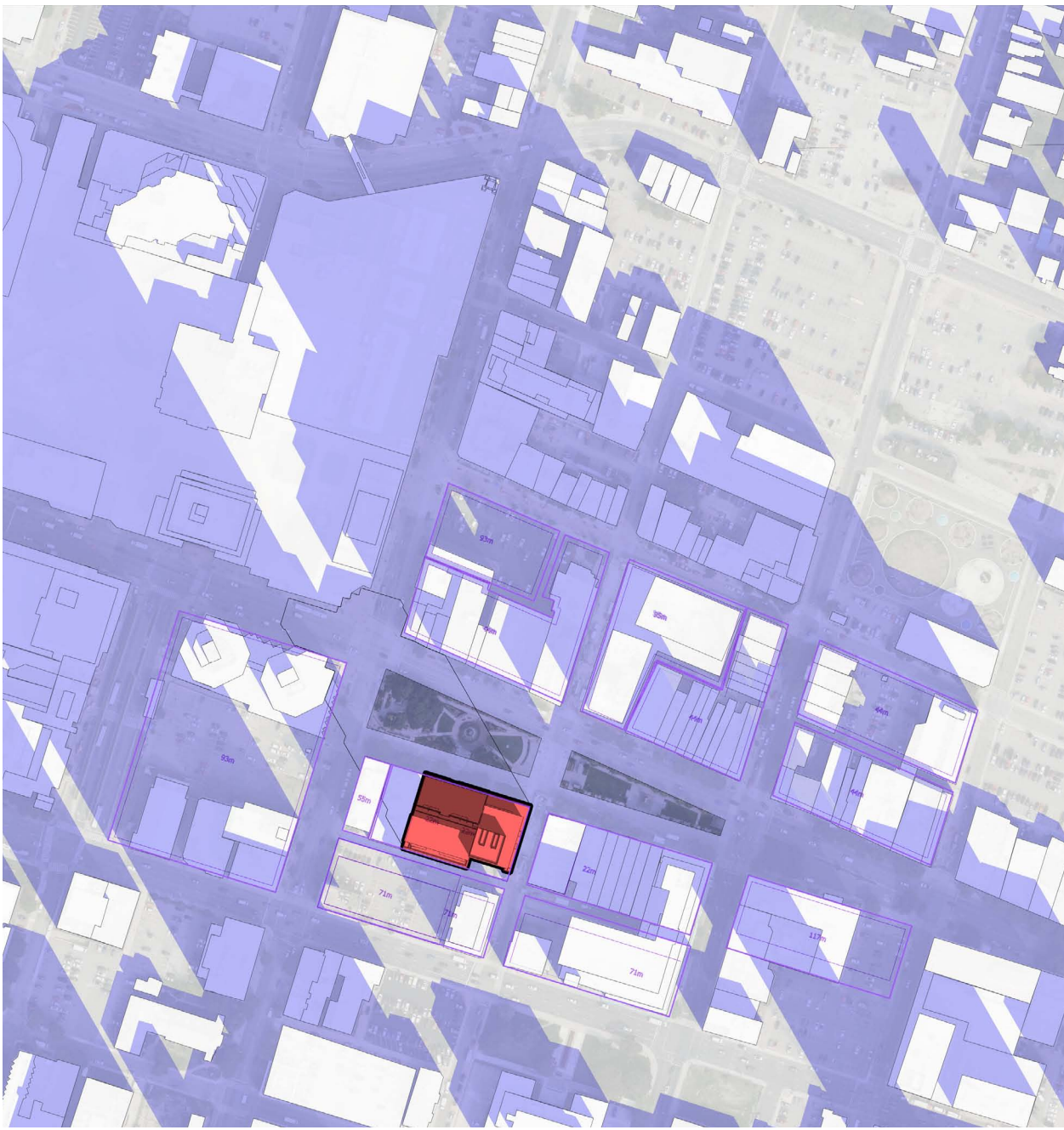


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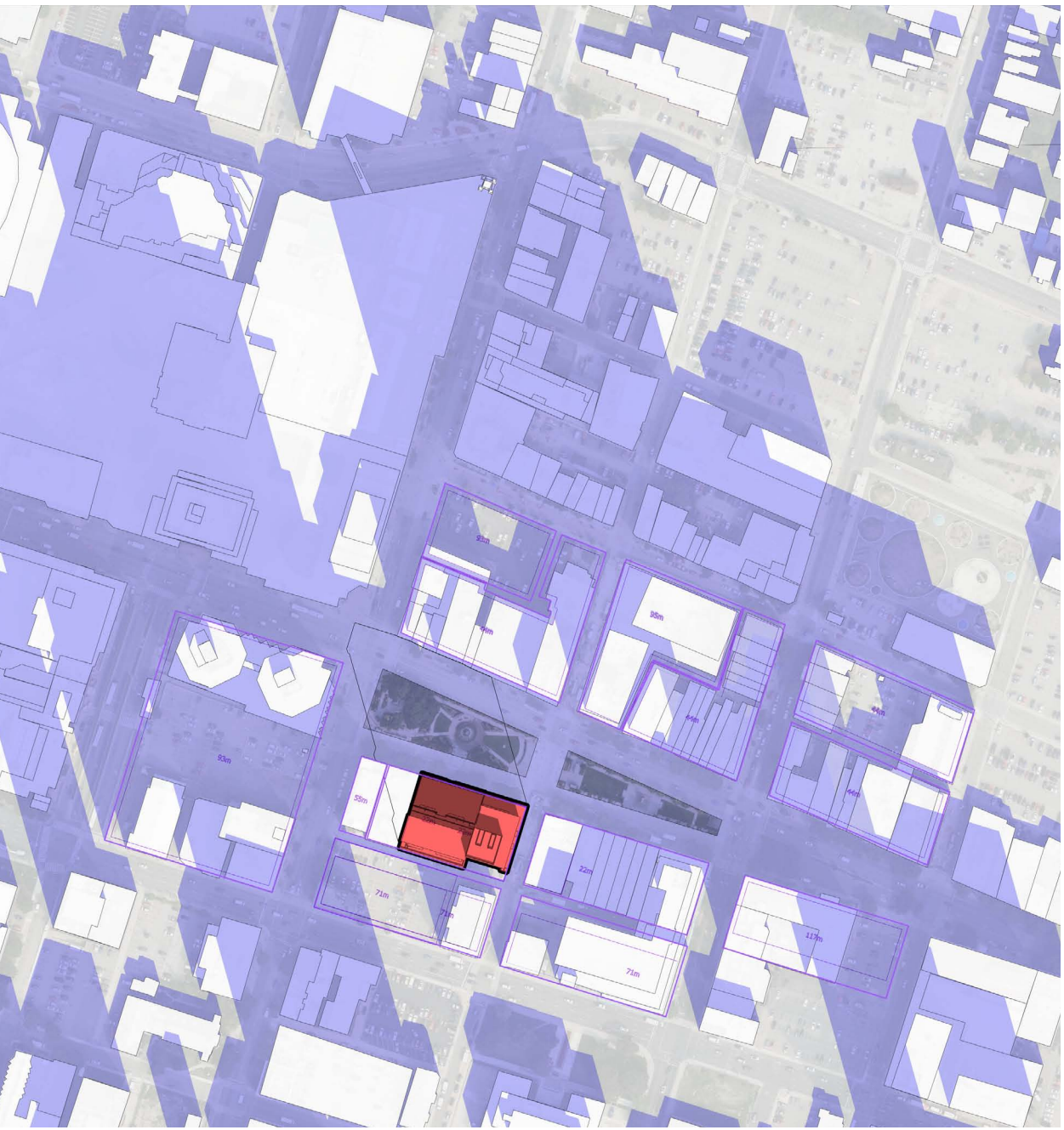




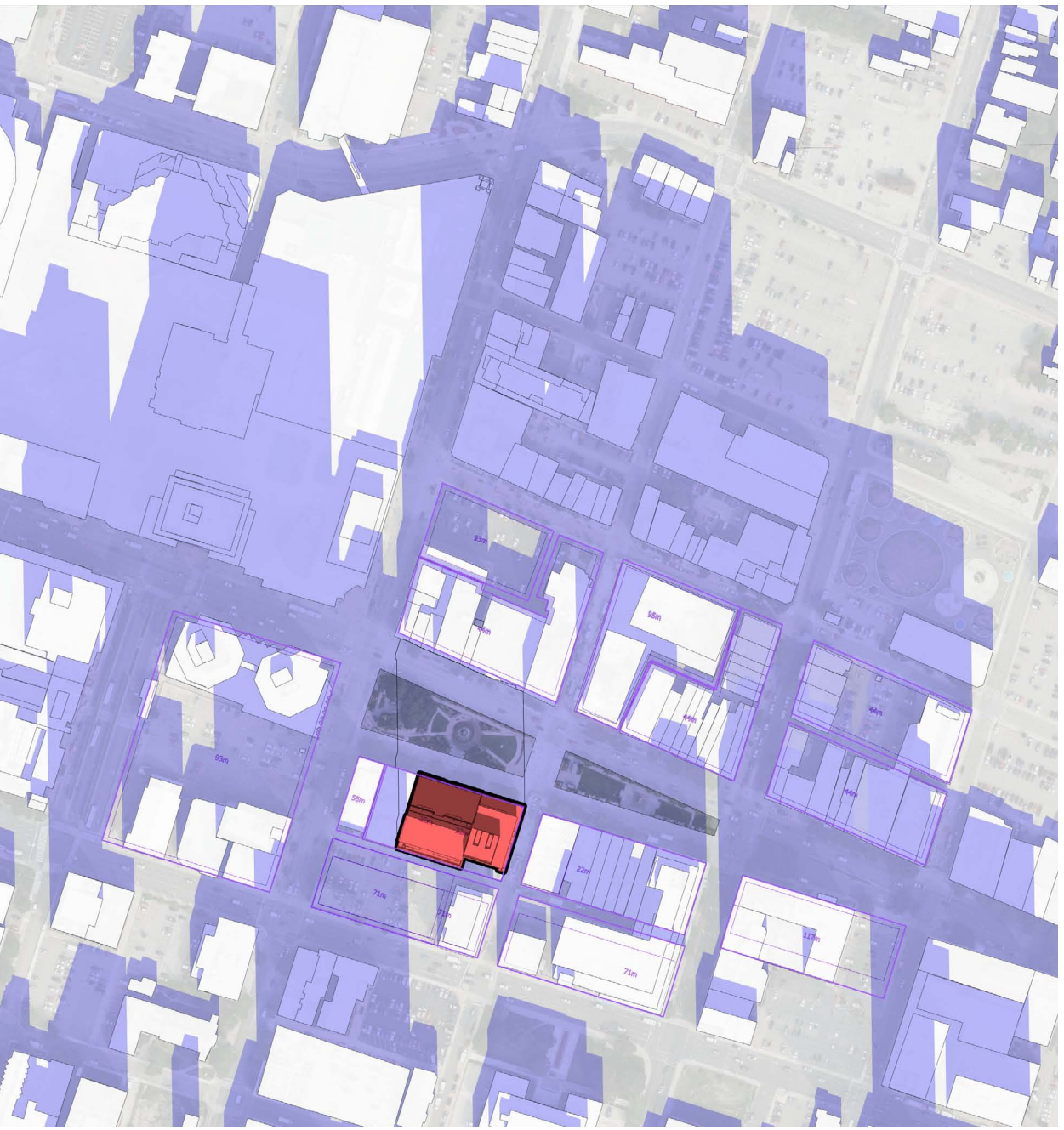
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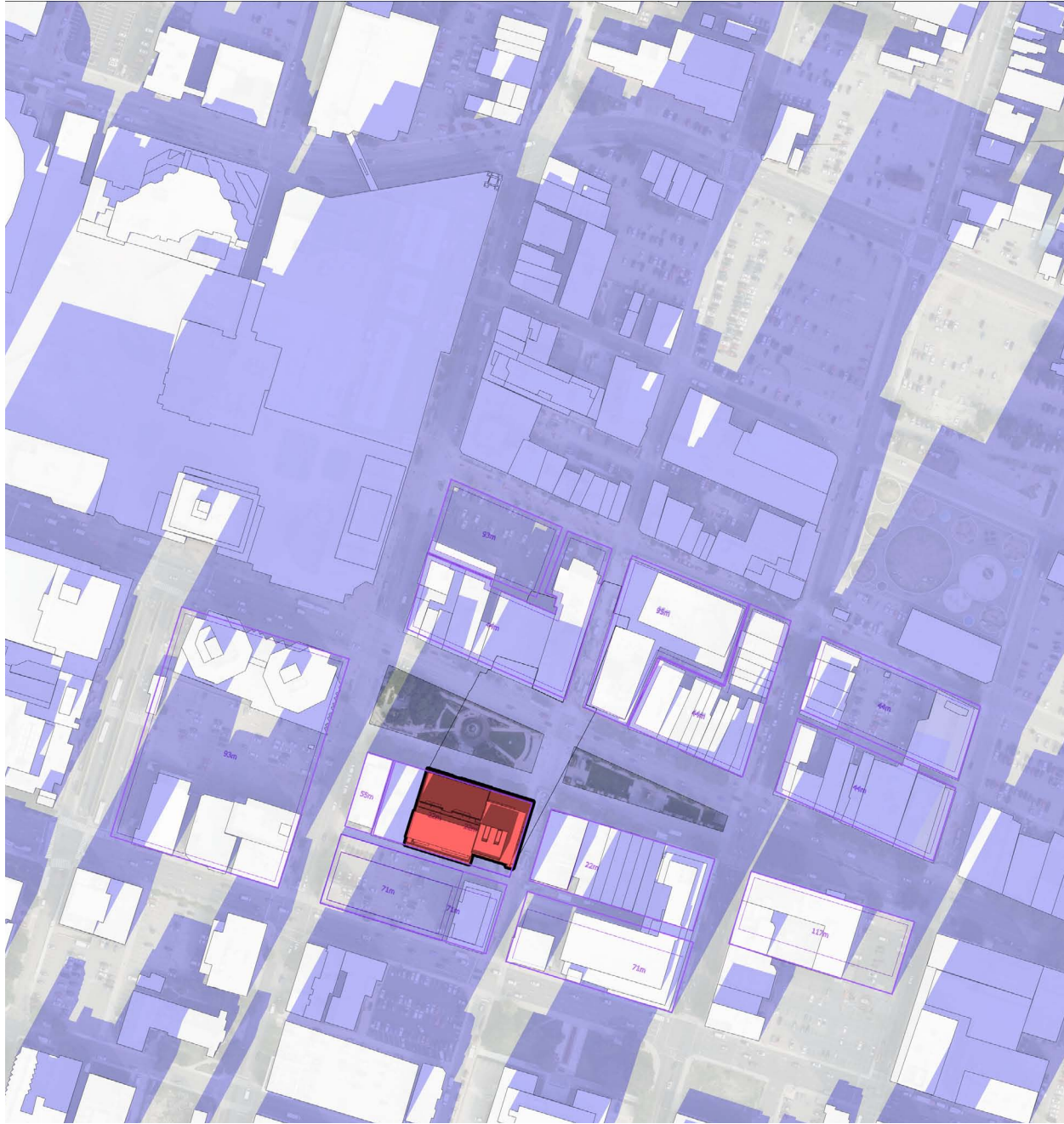
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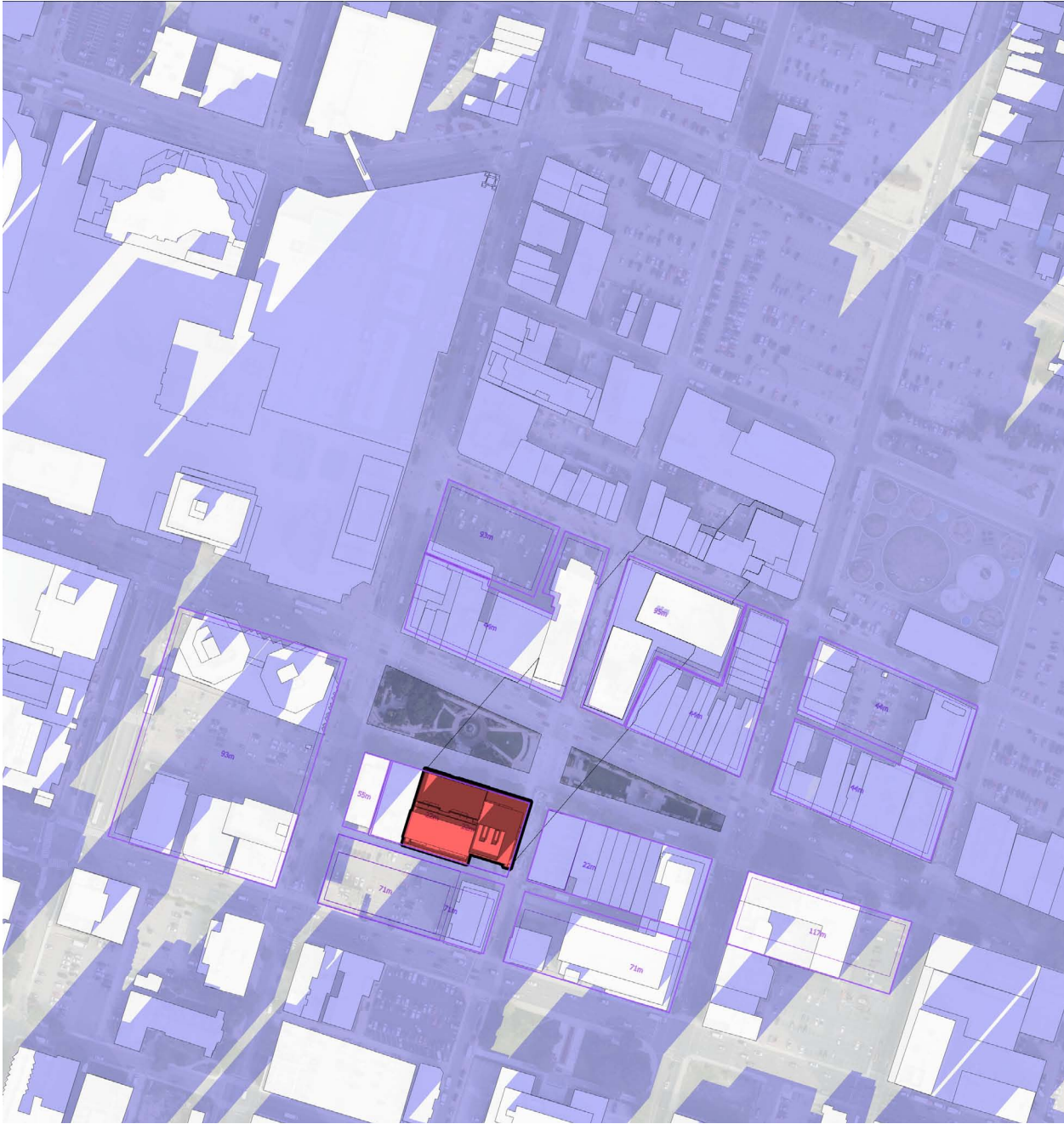
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