

<u>Planning and Zoning Board Agenda</u> July 25, 2023 Room 102 – 7:00 P.M.

Chair Announcement: A public hearing for zoning map amendment for 900 Graceland/1217 Thacker – the southwest corner of Graceland and Thacker, or "Site A" in the proposed Contour Place redevelopment – will not be occurring at this meeting. However, a public hearing for map amendment for "Site B," or the property at approximately 919-921 Graceland (east side of Graceland), *is* on this meeting agenda and will be heard.

Under "New Business," after the Board's conducting of the two public hearings, Developer Luz & Associates will provide an update on their plans and petition for Site A.

Call to Order and Roll Call

Approval of Minutes: July 11, 2023

Public Comment: For matters that are not on the agenda

Pending Applications

1. Address: Citywide

Case Number: 23-043-TA (Public Hearing)

The City is proposing text amendments to the Zoning Ordinance related to accessory structure definitions and regulations, and any other amendments as may be necessary.

PINs:CitywidePetitioner:City of Des Plaines, 1420 Miner Street, Des Plaines, IL, 60016Owner:n/a

 Address: Approximately 919-921 Graceland Avenue (parking lot for 1217 Thacker Street)
 Case Number: 23-040-MAP (Public Hearing)

The petitioner has requested a zoning map amendment to rezone the subject property from C-3 General Commercial to R-4 Central Core Residential, and any other variations, waivers, and zoning relief as may be necessary.

PINs:	09-20-203-006-0000
Petitioner:	Luz and Associates #1, LLC, 2030 West Wabansia Ave., Chicago, IL 60611
Owner:	Contour Saws, Inc., 100 Lakeview Parkway, Ste. 100, Vernon Hills, 60061

New Business

1. Update from Luz & Associates on Plan and Application for 900 Graceland/1217 Thacker ("Site A") of the Contour Place Redevelopment

City of Des Plaines, in compliance with the Americans With Disabilities Act, requests that persons with disabilities, who require certain accommodations to allow them to observe and/or participate in the meeting(s) or have questions about the accessibility of the meeting(s) or facilities, contact the ADA Coordinator at 847-391-5486 to allow the City to make reasonable accommodations for these persons. The public hearing may be continued to a further date, time and place without publication of a further published notice such as this notice.

DES PLAINES PLANNING AND ZONING BOARD MEETING July 11, 2023 DRAFT MINUTES

The Des Plaines Planning and Zoning Board held its regularly scheduled meeting on Tuesday, July 11, 2023, at 7:00 p.m. in Room 102 of the Des Plaines Civic Center.

Chair Szabo called the meeting to order at 7:00 p.m. and roll call was established.

- PRESENT: Hofherr, Saletnik, Weaver, Szabo
- ABSENT: Catalano, Fowler, Veremis

ALSO PRESENT: John Carlisle, AICP, CED Director Samantha Redman, Planner Margie Mosele, Executive Assistant

A quorum was present.

Call to Order and Roll Call

APPROVAL OF MINUTES FROM June 27, 2023

A motion was made by Board Member Weaver seconded by Board Member Saletnik to approve the meeting minutes of June 27, 2023.

AYES:Weaver, Saletnik, SzaboNAYES:NoneABSTAIN:Hofherr

*****MOTION CARRIES ****

PUBLIC COMMENT ON NON-AGENDA ITEM

- None

1065 Lee Street 733 Lee Street Conditional Use Text Amendment/Conditional Use/Variation 23-035-CU 23-036-TA-CU-V

1. Address: 1065 Lee Street

Case Number 23-035-CU

The petitioner and contract purchaser, Krzysztof Bernatek, is proposing a conditional use to allow for auto service repair and motor vehicle sales at 1065 Lee St

PIN:	09-20-214-002-0000
Petitioner:	Krzysztof Bernatek, 2017 De Cook Ave., Park Ridge, IL 60068
Owner/Property Control:	Centrust Bank, 385 Waukegan Rd., Northbrook, IL 60062
Ward Number:	#3, Alderman Sean Oskerka
Existing Zoning:	C-3, General Commercial
Surrounding Zoning:	North: C-3, General Commercial South: C-3, General Commercial East: Railroad tracks; R-1, Single Family Residential West: C-3, General Commercial
Surrounding Land Uses:	North: Parking lot South: Commercial building East: Commercial buildings West: Railroad tracks
Street Classification:	Lee Street is classified as a major road under jurisdiction of the Illinois Department of Transportation (IDOT).
Comprehensive Plan:	Commercial is the recommended use for this property.
Property/Zoning History:	The property currently consists of a commercial building and a gravel parking area to the east. For several decades, Midwest Automotive operated at this property until closing in 2020. In 2001, a conditional use was granted to sell four motor vehicles on the site. In 2019, an amendment to the conditional use allowed for the sale of up to ten motor vehicles on the property; however, in 2020, the conditional use for motor vehicle sales was rescinded due to a number of code violations. Specifically, vehicles were parked on the adjacent lot (parking lot for 1062 Lee), vehicles

1065 Lee Street 733 Lee Street	Conditional Use Text Amendment/Conditional Use/Variation	23-035-CU 23-036-TA-CU-V
	unassociated with the business were stored in the and landscaping required by the previous conditi never installed. Since the closure of the business additional code enforcement issues have emerged stored on the site and the parking of trucks unass business in the rear gravel parking area.	onal use was in 2020, several d, including debris
Project Description:	The petitioner and contract purchaser, Krzysztof proposing a conditional use to allow for auto serve motor vehicle sales at 1065 Lee St.	
	Proposed Use and Business Operation Details	
	Justpol Automotive is a proposed new auto servi Currently the petitioner owns Kris Touhy Auto, v two automotive repair businesses accessory to ga Waukegan Road in Morton Grove and 5035 Wes Skokie. Currently, Kris Touhy Auto provides aut (including tire replacement and repair, oil change activities associated with auto service repair) wit The petitioner intends to operate their first stand- repair business at 1065 Lee St.	which consists of as stations at 8801 st Touhy Ave in to service repair es, and other hin gas stations.
	Six bays in the building will be used for auto rep will be used for general administrative duties as room and an area to display products for sale to a customers. Per the petitioner, any retail activities with the auto service repair customers. No auto b occur on this property.	well as a waiting auto repair s will be associated
	Motor vehicle sales are a conditional use allowed Zoning District if they exceed 25,000 square feet 31,326 square feet. The motor vehicle sales will spaces, as noted on the Site Plan attachment. The choose to expand the number of spaces used for sales in the future, after the rear parking lot is im the number of sale spaces will require amendment conditional use.	t. This property is consist of five e petitioner may motor vehicle proved; expanding
	Improvements to the Site	
	As discussed in the Property/Zoning History of the property was previously an auto service repair by term operations. Limited interior renovations are make the site suitable for the repair of vehicles in repair bays are located within the building.	usiness with long- e necessary to

Proposed exterior improvements will include restriping and resurfacing of the parking lot, including adding two accessible spaces (as required by Section 12-9-8). The petitioner also plans to remove gravel from the rear parking area and pave an asphalt driveway in the back of the property leading to the dumpster enclosure and the rear overhead doors. Any unpaved areas on the property, including the remainder of the gravel parking lot in the rear, will be covered with grass, wood mulch, or other plant materials, as required by Section 12-10-6.A. Several suggested conditions of approval involve these property improvements, which per the site plan are intended to enhance the rear of the property and lessen the amount of hardscape (parking surface) in favor of increasing the amount of landscaped area.

Impact to Neighborhood

Noise and odor associated with this site will be typical of an auto service repair use, which is the historical use of this property. The proposed hours of operation will be 8:00 a.m. to 5:00 p.m., Monday through Friday, Saturday 8:00 a.m. to 12:00 p.m. The proposed number of employees will be 10 or fewer. No additional entrances are proposed at this site; access will be provided by the existing two driveways.

A traffic study was not requested by staff, as the scale of this operation is the same as the previous use in this location and no known issues with traffic were communicated by Police or Code Enforcement surrounding the business that previously operated at this site. However, several violations were issued for the previous business, as discussed in the Property/Zoning History section of this report. Several suggested conditions of approval were written to provide assurances this conditional use will not result in additional violations if this type of use is reinstated.

Parking

The below table provides an overview of required and provided parking for this building and uses. After improvement of the rear parking area, additional parking spaces will be added to the total; however, the petitioner does not have specific plans. If additional display spaces are requested in the future, the petitioner would be required to amend the conditional use, as specified in the suggested conditions of approval.

Use	Requirement	Total Required	Total Proposed				
Automotive service repair	2 spaces per service bay, plus 1 space for every 200 square feet of accessory retail	6 service bays = 12 spaces 1425 sq ft of office = 8 spaces 20 spaces	21 spaces				
Motor vehicle sales1 space for every 500 square feet of showroom and office floor area, plus 1 space for every 20 vehicle display spaces (required off street parking spaces cannot be occupied by motor vehicles for sale or for lease)		5 vehicle display spaces No showroom or office specifically for the motor vehicle sales 0 required spaces	5 vehicle display spaces				
Accessible Spaces	Parking lots with 21 to 50 spaces require 2 spaces	2 accessible spaces	2 accessible spaces				
Total Spaces:		Required 20 off-street parking spaces 2 accessible spaces	Proposed 21 off street parking spaces* 5 display spaces for motor vehicle sales 26 total spaces				
*Includes accessible space	*Includes accessible spaces						

Most vehicles will be repaired and returned to the customer within 24 hours, per the petitioner. A suggested condition of approval would require all inoperable vehicles to be placed inside the building or in the rear parking lot only in striped spaces that would comply with the dimensional requirements of the Zoning Ordinance.

An additional suggested condition of approval acknowledges issues with the former auto service repair business using the adjacent parking lot to park vehicles. This parking lot on 1062 Lee Street is owned by a separate property owner and may not be used to park or store vehicles. The suggested condition of approval requires signage indicating parking areas for the auto repair business and stating that no parking is permitted on the adjacent property.

Standards for Conditional Use

The following is a discussion of standards for conditional uses from Section 12-3-4(E) of the Zoning Ordinance. Rationale for how the proposed amendments would satisfy the standards is

1065 Lee Street
733 Lee Street

provided below and in the petitioner's response to standards. The PZB may use this rationale toward its recommendation, or the Board may make up its own.

1. The proposed Conditional Use is in fact a Conditional Use established within the specific Zoning district involved:

Comment: Auto service repair and motor vehicle sales (on properties greater than 25,000 square feet) are conditional uses within the C-3, General Commercial District.

PZB Additions or Modifications (if necessary):

2. The proposed Conditional Use is in accordance with the objectives of the City's Comprehensive Plan:

<u>Comment:</u> The 2019 Comprehensive Plan illustrates this area to be used for Commercial. This business would bring commercial activity into this area; several buildings in this corridor are vacant, and revitalization with new businesses would be beneficial to the vitality of this area of Lee Street.

PZB Additions or Modifications (if necessary):

3. The proposed Conditional Use is designed, constructed, operated, and maintained to be harmonious and appropriate in appearance with the existing or intended character of the general vicinity:

<u>Comment:</u> Many suggested conditions of approval are included with this case to provide assurances about the use being compliant with applicable zoning requirements, including requiring improvements to the parking lot, removal of gravel from the rear parking area, and providing landscaping around the pole sign and in front of the building or parking lot. No modifications to the exterior of the building are proposed.

PZB Additions or Modifications (if necessary): _____

4. The proposed Conditional Use is not hazardous or disturbing to existing neighboring uses:

<u>Comment:</u> As discussed in the Petitioner's Response to Standards, the business will operate Monday through Friday 8:00 a.m. to 5:00 p.m., and Saturday 8:00 a.m. to 12:00 p.m. The property is within an existing commercial area, with no residences directly adjacent. See the Petitioner's Narrative and Response to Standards for additional information about business operations. The suggested conditions of approval surrounding the location of parking, storage, disposal of materials, and landscaping are meant to provide assurances that limit any disturbance or nuisance to the neighborhood, either through the business operations or aesthetics of improvements.

PZB Additions or Modifications (if necessary):

5. The proposed Conditional Use is to be served adequately by essential public facilities and services, such as highways, streets, police and fire protection, drainage structures, refuse disposal, water and sewer, and schools; or, agencies responsible for establishing the Conditional Use shall provide adequately any such services:

<u>Comment:</u> The existing building has been adequately served by essential public facilities and services. Staff has no concerns that the proposed use will not be adequately served with essential public facilities and services. Prior to business registration approval, the petitioner must provide a waste oil agreement to the Fire Prevention Bureau and undergo an inspection of the building by the fire, building, and zoning divisions to determine compliance with this conditional use and all applicable local, state and federal regulations.

PZB Additions or Modifications (if necessary):

6. The proposed Conditional Use does not create excessive additional requirements at public expense for public facilities and services and will not be detrimental to the economic well-being of the entire community:

<u>*Comment:*</u> The proposed use would not create a burden on public facilities. This new business would be located within an existing building and provide additional business activity to this corridor.

PZB Additions or Modifications (if necessary):

7. The proposed Conditional Use does not involve uses, activities, processes, materials, equipment and conditions of operation that will be detrimental to any persons, property, or the general welfare by reason of excessive production of traffic, noise, smoke fumes, glare or odors:

<u>Comment:</u> Traffic generated by these uses will be consistent with the amount of traffic previously generated at this site, and staff believes the existing street network can accommodate the traffic for this use. This auto service repair use would result in the same amount of fumes, noise, and odors as other similar businesses, including the former business at this location.

The petitioner indicates in their narrative and response to standards that any hazardous materials generated by this use (oil, tires, etc.) will be properly handled and meet city, state, and federal requirements. Used tires are picked up by a third-party tire disposal company every other week, per the petitioner's response to standards. A suggested condition of approval states where used tires may be located and requires the petitioner to provide to staff a copy of this tire disposal company contract.

No underground storage tanks (UST) are proposed for this property; a previous used oil tank was located on this site and removed in 1990, per the State Fire Marshall UST Database.

PZB Additions or Modifications (if necessary):

1065 Lee Street 733 Lee Street

8. The proposed Conditional Use provides vehicular access to the property designed so that it does not create an interference with traffic on surrounding public thoroughfares:

<u>Comment:</u> Access to the building will continue to be provided by two existing driveways along Lee Street. Traffic generated by these uses will be consistent with the amount of traffic previously generated at this site, so a traffic study was not requested by staff. Staff believes that the existing street network can accommodate the traffic for this new use, as the intensity is not increased compared to the previous use at this location.

PZB Additions or Modifications (if necessary): ____

9. The proposed Conditional Use does not result in the destruction, loss, or damage of natural, scenic, or historic features of major importance:

<u>Comment</u>: The subject property is within an existing building and thus would not result in the loss or damage of natural, scenic, or historic features. No new development is proposed for this site.

PZB Additions or Modifications (if necessary): _

10. The proposed Conditional Use complies with all additional regulations in the Zoning Ordinance specific to the Conditional Use requested:

<u>Comment:</u> The proposed uses comply with all applicable requirements as stated in the Zoning Ordinance. Several proposed improvements and related suggested conditions of approval are proposed that would bring this property into closer conformance with requirements, including providing handicap accessible parking spaces, landscaping, and removal of non-permitted landscaping material (gravel) from the rear parking area.

PZB Additions or Modifications (if necessary):

PZB Procedure and Recommended Conditions: Under Section 12-3-4.D (Procedure for Review and Decision for Conditional Uses) of the Zoning Ordinance, the PZB has the authority to *recommend* that the City Council approve, approve subject to conditions, or deny the above-mentioned conditional use permit. City Council has final authority on the proposal.

Consideration of the request should be based on a review of the information presented by the applicant and the findings made above, as specified in Section 12-3-4.E (Standards for Conditional Uses) of the Zoning Ordinance. If the PZB recommends and City Council ultimately approves the request, staff recommends the following conditions.

Recommended Conditions of Approval:

- 1 No motor vehicles unassociated with the petitioner's business operations may be parked in any of the parking areas associated with the property.
- 2. Except for operable motor vehicles, no materials or supplies related to this use may be stored outside the building or the dumpster enclosure. Prior to business registration, all debris must be removed from the property, including the rear parking area.
- 3. All used tires must be located inside a building or within a permitted accessory structure. A contract indicating at minimum biweekly pickup of used tires must be provided to Community and Economic Development staff prior to approval of business registration. This tire disposal contract must be active if the auto service repair use is active on this property.
- 4. Any vehicles related to this use must be stored on this property, on a dust-free hard surface. Any inoperable vehicles must be located inside the building or placed in the rear parking/driveway area, in which case the rear driveway area must contain striped parking spaces that satisfy all dimensional requirements of Chapter 12-9 (Off-Street Parking and Loading).
- 5. Identification and directional signs must be located on site noting the locations available for customers of the proposed business at 1065 Lee and noting that parking on the adjacent parking lot at 1062 Lee is prohibited.
- 6. Parking on the adjacent parking lot at 1062 Lee St is strictly prohibited, until and unless the petitioner acquires or leases this property, in which case the additional parking would be an expansion, and an amended conditional use would be required.
- 7. Motor vehicle sales requires a state dealer license. Prior to issuance of building registration, petitioner must obtain license; the City will cooperate in prerequisite process, such as signing the Certificate of Proper Zoning.
- 8. No more than five motor vehicles may be displayed for sale on site at one time. Through signs, striping, or a combination, these five spaces should be identified and reserved. Additional display spaces would require an amendment to the conditional use. Sufficient spaces to meet the minimum off-street parking requirements shall be provided on the property at all times.
- 9. All parking areas must be paved, striped, and landscaped according to all applicable Zoning Ordinance standards. Accessible parking spaces shall be located on site to meet accessibility standards pursuant to Section 12-9-8 and Illinois Accessibility Code. The petitioner may revise the site plan approved with this conditional use to adjust striping and landscaping; provided, however, the final plan includes the minimum number of spaces for this use.
- 10. Three feet of landscaping must be provided around the base of the existing pole sign, pursuant to Section 12-11-4.G. Landscaping or landscape planter boxes must be added to the street-facing portion of the building or parking lot prior to business registration.
- 11. A parking lot permit to reflect the site plan must be issued prior to business registration. The petitioner may revise the site plan approved with this conditional use; however, the paved area in the rear, if intended to be used for any parking, must meet dimensional requirements pursuant to Chapter 12-9. This permit must indicate all gravel will be

removed from the property and be replaced by an approved landscaping material (turf, wood mulch, or other plant materials), pursuant to Section 12-10-6.

Attachments:

Attachment 1:	Location Map
Attachment 2:	Site and Context Photos
Attachment 3:	Project Narrative and Responses to Standards
Attachment 4:	Plat of Survey
Attachment 5:	Site Plan

Chair Szabo swore in petitioners, Christian Bernatek and Krzysztof Bernatek for 1065 Lee Street.

C. Bernatek stated that they are requesting two conditional use permits for Auto Repair and Auto Sales. He stated that they started their business in Park Ridge in 2005. They have since moved to two locations, one in Skokie and one in Morton Grove. They would like to merge the businesses under one roof in Des Plaines. He stated that they are mechanics, and they usually have the vehicles 1-2 days. Mr. C. Bernatek stated that they plan to resurface the front parking lot, refinish the stucco in the front, add two accessible parking spaces in the front. He plans to add landscaping. He proposes a driveway to access the two doors in the back. The rest of the area would be wood chips or other landscaping. He stated that the dumpster would be enclosed in the back. He discussed the site plan.

Chair Szabo asked where the dumpster would be located?

C. Bernatek stated they plan to put the dumpster in the back on a concrete pad. He plans to have the dumpster hidden.

Member Weaver asked about the parking space lines on the site map. He asked if the two accessible parking spots are in the front of the building. And if the alley is in the right of way and would be used for the garbage truck to get to the dumpster? He asked if he was planning to use the 8 feet of public way?

C. Bernatek stated that there would be two accessible parking spaces in the front and there would be parking on the side as well. He stated that he has 30 feet from the building allowing a driving area. The alley was used as a street in the past it dead ends into the railroad. No one uses it unless they are accessing the properties.

Member Hofherr asked how many vehicles do you anticipate inside and outside the business? He also said that the front of the business has spaces. Would the side spaces be used for employees?

K. Bernatek stated that they will have enough parking. He stated they could have between 5-10 vehicles at a time. Their goal is to have 50-75% of allowable spaces used. He stated that the

North end is designated for the front spaces. The bay doors will be used for customers and the side areas would most likely be used for employees.

Samantha Redman, Planner gave the staff report. She explained the two Conditional Use requests for 1065 Lee Street. One is for Auto Services and the other is for Motor Vehicle Sales. She gave a presentation explaining requests. The location is zoned C-3. She went over the site photos showing the bays, dumpster, and parking lots. Ms. Redman gave the background of the property. She explained the Conditional Use for Motor Vehicle Sales in C-3 requires 25,000 square feet. The petitioner has over 31, 00 square feet. She stated that the parking lot will need to be resurfaced and restriped. There are already parking spaces. They could request to vacate the alley in the future. They will also need to add landscaping. They will need to add accessible parking spaces. They currently have 6 bay spaces. There is a gravel parking lot in the rear that is not allowed in Des Plaines. There are plans to remove the gravel and redo the parking lot. There is currently a driveway in the back for the dumpster and bay door. There are 11 suggested Conditions of Approval.

Chair Szabo asked if the petitioner is aware of all the recommended conditions and if they have a problem with any of them.

C. Bernatek stated that they do not have a problem with any of the conditions.

Member Weaver asked about Condition 11, stating the petitioner may revise the site plan approved with this conditional use; however, the paved area in the rear, if intended to be used for any parking, must meet dimensional requirements pursuant to Chapter 12-9. This permit must indicate all gravel will be removed from the property and be replaced by an approved landscaping material (turf, wood mulch, or other plant materials), pursuant to Section 12-10-6. Member Weaver asked that if they have the ability to remove the gravel without needing to improve the parking lot. Ms. Redman stated yes, they will need to removal the gravel but do not need to get a full parking lot permit to do this; the intent with the condition is to provide flexibility.

Chair Szabo asked the audience if anyone is in favor or opposes this request. – No responses.

A motion was made by Board Member Weaver, seconded by Board Member Hofherr to recommend that the City Council approve the Conditional Use permit with the eleven conditions drafted by staff.

AYES:	Weaver, Hofherr, Saletnik, Szabo
NAYES:	None
ABSTAIN:	None

*****MOTION CARRIES UNANIMOUSLY ****

2. Address: 733 Lee Street

Case Number: 23-038-TA-CU-V

The petitioner is requesting the following under the Zoning Ordinance (summarized): (i) text amendments to allow a "School – Private, Elementary and High" in the 700 block of Lee Street in the C-5 Central Business District, with a conditional use permit, where currently such schools are allowed only in the 800 block of Lee; (ii) a conditional use to operate such type of school at 733 Lee, or an amendment to the conditional use granted by Ordinance Z-024-10, whichever is necessary; (iii) a conditional use for commercially zoned assembly; and (iv) variations that address various existing structure, sign, and site conditions; the recording requirement for collective parking agreements; and proposed partial compliance with parking lot landscaping requirements.

PIN:	09-20-200-042-0000, 09-20-200-006-000
Petitioner: Owner:	ICCD Academy NFP, 733 Lee St., Des Plaines, IL, 60016 (Authorized agent/representative: Mark Daniel, Daniel Law Office, 17W733 Butterfield Road, Unit F, Oakbrook Terrace, IL 60181) Trustee of Trust No. 16505, Parkway Bank and Trust Co., 4800 N. Harlem Ave., Harwood Heights, IL 60706 (Beneficiary: ICCD Academy, NFP)
Ward Number:	#2, Alderman Colt Moylan
Existing Zoning:	C-5, Central Business District
Surrounding Zoning:	North: C-5, Central Business South: R-4, Central Core Residential East: R-4, Central Core Residential West: C-5, Central Business
Surrounding Land Uses:	North: Office building, City-owned library parking garage South: Financial institution (Old National Bank) and parking lot East: Private school West: Vacant site
Street Classifications:	Lee Street is an arterial roadway (IDOT jurisdiction); Prairie Avenue and Center Street are collectors (local jurisdiction).
Comprehensive Plan :	The Comprehensive Plan illustrates this site as Higher Density Urban Mix with Residential.

Property/Zoning History:

This subject property/zoning lot is 33,177 square feet (just greater than .75 acres) and consists of two parcels. The lot is separate from both the small triangular lot and building at 1445 Prairie (not connected), as well as the lot and building at 749 Lee (currently Old National Bank; also not connected). The building on the subject property consists of three usable floors: a basement, first floor, and second floor. In addition, there is a surface parking lot in the east (rear), currently striped with 38 parking spaces per the Plat of Survey, accessible from Center Street. In 2010, Ordinance Z-024-10 (see attached) granted the subject property a conditional use to operate a school. This approving ordinance was requested at the time by Plato Academy, which occupied the building for several years before moving to 915 Lee Street. Plato shared the building with office tenants, notably the Greek American Restaurant Association. When Plato vacated, the office use remained. The petitioner purchased the property in 2022.

The petitioner approached staff in 2022 about opening Islamic City Center of Des Plaines Academy (ICCDA). The current Zoning Ordinance does not allow private schools in the 700 block of Lee (restriction was put in place in 2018). However, staff reviewed with the General Counsel and determined that the approving conditional use ordinance was written to run with the property and could be transferred to the same use – a private school – even though the new owner/operator was different than the original petitioner. Further, Section 12-3-4.H.3 states, "...a conditional use shall be deemed to relate to, and be for the benefit of, the use and lot in question, rather than the owner or operator of such use or lot." Therefore, the petitioner has been utilizing the conditional use for their operations and building, bound to the restrictions of being a legal nonconforming use (Section 12-5-5) and adherence to all conditions and limitations of the 2010 approval. The City and the petitioner entered into an agreement, dated August 30, 2022, which reinforced that all conditions and parameters of the approving ordinance would apply to ICCDA. These parameters included (i) using only portions of the floor plan illustrated in the approving ordinance for school purposes; (ii) limiting enrollment to no more than 60 students, as this was represented by Plato Academy when they received the original approval; (iii) maintaining unobstructed windows, except for uniform, non-permanent window treatments; and (iv) remaining willing to work with the City if any traffic issues arise. The City issued a business registration in September 2022 to allow school occupancy for the 2022-2023 academic year, and the school subsequently opened. They are now requesting approvals to operate in a larger portion of the building with more students, and to have non-accessory worship and religious activities ("commercially zoned assembly").

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TEXT AMENDMENT

Request Description:

The petitioner, ICCDA, is requesting to amend Section 12-7-3.K of the Zoning Ordinance, specifically the Commercial Districts Use Matrix. Currently in the C-5 District, conditional use permits allow private schools only in the 800 block of Lee Street (currently the Little Bulgarian School/Center is in this block). This limitation was established in June 2018 (Ordinance Z-17-18). The requested text amendment would extend the possibility of private schools to the 700 block of Lee Street, but a conditional use would still be required, which means the PZB would hear and review and the City Council would have to approve any request for such school. The following are the proposed amendments (additions are **bold, double-underlined**; deletions are struckthrough):

"12-7-3: COMMERCIAL DISTRICTS REGULATIONS:

K. Commercial Use Matrix:

TABLE 3

COMMERCIAL DISTRICTS USE MATRIX

P = Permitted use

C = Conditional use permit required

	C-1	C-2	C-3	C-4	C-5	C-6	C-7
Schools, private - elementary and high school					C15		

Notes:

15. For properties <u>with frontage</u> located on the <u>700 block and</u> 800 block of Lee Street only. <u>Provided that there is an elementary or high school, the school may also operate</u> <u>kindergarten and pre-kindergarten programs accessory to the school.</u>

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CONDITIONAL USES / AMENDED CONDITIONAL USE

Request Description:

The petitioner is requesting two conditional use permits: (i) a private school, as the primary principal use; and (ii) a commercially zoned assembly as a secondary principal use. In the event the requested text amendment is not approved, ICCDA requests consideration of an amendment to the original conditional use to achieve the desired expansion of school operations.

Private school

The petitioner has operated ICCDA at the property since September 2022. They completed their first fall-to-spring main academic year in June 2023 and are currently providing summer programming. The school's mission includes a traditional academic and religious curriculum, meaning that worship activities involving students, families, and staff are intrinsic and accessory to the school. Assuming the proposed text amendment is approved, the petitioner is seeking a new conditional use to entitle ICCDA specifically and to allow the organization to expand both student enrollment and the portions of the building that may be used for school purposes (i.e., basement and the second floor). In summary, the petitioner's statement and plans request and depict the following:

- An allowance of *up to* 233 students, pre-K through eighth grade, exclusive of volunteers and staff
- An expanded number of classrooms (20, including art rooms and science or other labs), on both the first and second floors
- An auditorium on the second floor and prayer/worship area(s) in the basement; these areas would be part of the daily school curriculum but also serve as the proposed commercially zoned assembly area (see separate discussion later in the report).

Activity	Days/Purpose	Time
General school hours	Monday-Thursday	8 a.m4 p.m.
	Friday	8 a.m2 p.m.
	Saturday-Sunday	9 a.m2 p.m.
General before-school program	Weekdays	7-8 a.m.
General after-school program	Monday-Thursday	4-6:30 p.m.
	Friday	2-6:30 p.m.
General staff & janitorial arrival	Weekdays	5:30-7:30 a.m.
Planned Drop-off Period	Weekdays	7:30-8:45 a.m.
	Saturday-Sunday	8:30-9:30 a.m.

This table outlines approximate days and times of programming in the building.

Planned Pick-up Period	Monday-Thursday	3:30-4:30 p.m.
	Friday	1:30-2:30 p.m.
	Saturday-Sunday	1:30-2:30 p.m.
Ramadan (Iftar)	Assembly*	6-10:30 p.m.

*A secondary principal use, not necessarily accessory to the school

Drop-off and Pick-up Operations

The petitioner has provided a detailed description and graphical depiction of drop-off and pick-up of students, using the property's on-site parking lot, with vehicles entering from and exiting to Center Street. In a typical day, the combined drop-off and pick-up duration is two hours and 15 minutes, and per the provided table and description, and the periods would not overlap with staff arrival and departure. ICCDA employees would be assigned parking spaces in locations that would have the least potential conflict with the temporary lanes. The drop-off and pick-up locations within the parking lot intuitively allow the younger students and their parents the nearer positions to the door, and the plan identifies that staff from the school would be outside the building during the periods to help manage the flow.

The attached plan includes observations, data, and projections prepared with the engineering firm KLOA and grounded in the makeup of the current student population. Because of the school's tendency to enroll multiple students from a single family, the petitioner expects that the number of vehicles circulating through a pick-up or drop-off would not exceed half, or 50 percent, of the enrollment. Further, they project that approximately 15 percent of students will walk to school. Finally, the petitioner expresses willingness to work with the Police Department to the extent necessary or required. It is worth noting Police and other City staff do not support the incorporating *on*-street loading on any of the adjacent streets: Lee, Prairie, or Center. However, it is also worth noting that upon receiving this comment in staff review prior to the public hearing, the petitioner revised their plans to make the fullest and most deliberate possible use of their parking lot and drive aisles.

Building Safety and Occupancy

The greatest challenge in allowing the desired student enrollment in staff's view is not the external factors surrounding parking and traffic but instead the remodeling or retrofitting the building such that classrooms and all school-occupancy spaces have sufficient hallway widths to provide means of egress. In the past, this building has been a mix of school and office occupancies; it is now proposed to be school and assembly (worship). The Building Division has worked extensively with the petitioner's architect to advise on floor plans with dimensions that could allow the occupancy to approach what the petitioner desires. However, while the attached floor plans are provided for zoning consideration, they should not be considered building permit-ready drawings. In fact, staff recommends a condition that while the maximum desired student enrollment of 233 could eventually be reached in the future under conditional use approval, the occupant load of the building cannot exceed the maximum established by the Chief Building

Official and Fire Prevention Bureau; plans may be altered, and the occupant load may be increased, if required alterations are made.

Commercially Zoned Assembly

The petitioner describes certain activities that would be open to the public beyond ICCDA students, families, staff, and volunteers, particularly during holy periods during the calendar year. These activities are less frequent than the daily school operation, occupy only portions of the building (basement prayer areas, second-floor auditorium) and are therefore <u>subordinate</u> to the primary principal use; however, they are not incidental/accessory to the school, so the assembly activity is categorized as a secondary principal use and must be approved via a conditional use. No text amendment is required, as commercially zoned assemblies are already established as a conditional use in the C-5 District, without any additional prerequisites or restrictions.

The Iftar, or daily fast-breaking evening meal during the annual holy period (approximately one month) of Ramadan, is identified as the main time during the year when commercially zoned assembly would occur. In addition, the petitioner notes that on Fridays, the building would host Jumu'ah prayers, which may occasionally be open to the public—although the statement attests when open to the public, the Jumu'ah would not overlap with school activities. The Board may wish to ask the petitioner to explain how the overlap would not occur if the submitted schedule shows the school being open on Fridays. Further, the PZB may ask the petitioner to clarify how the food component of Iftar will occur (i.e., food brought from the outside versus prepared on site). Language within the petitioner's statements indicates no food would be prepared on site.

The basement prayer/library area spans two rooms and is 2,904 square feet per the submitted floor plan. It does not have fixed seating but lists a maximum occupancy of 194 people. The second-floor auditorium is 903 square feet and proposed to have a maximum occupancy of 60 people (presumably through fixed seating). Collectively, these are the proposed assembly use areas.

Off-Street Parking (Both Uses)

The petitioner's plans show a restriped parking lot that actually increases the number of spaces from the current striping: from 38 currently to 42. The addition stems from the ability to design the accessible parking area more efficiently because of recent updates to the Illinois Accessibility Code. Further, the property lies in the C-5 District. Section 12-9-1 instructs "… no off-street parking shall be required for the first two thousand five hundred (2,500) square feet of a *use*…in the C-5 central business district." The petitioner is proposing two principal uses – private school (primary) and commercially zoned assembly (secondary) – and the sum of both minimums will establish the overall minimum. However, Ordinance allows the 2,500-square-foot deduction from each use. The rationale is that as the central business district C-5 is different from other areas of Des Plaines because of the availability of public parking garages and public transportation, as well as residential density that lends itself to households walking and having a reduced need to drive and park.

The table on the following page breaks down the minimum requirements for both a private school and a commercially zoned assembly, which must be summed to determine the total requirement. In summary, the total requirement is 39 spaces, and 42 are proposed to be provided, after parking lot improvements (restriping, addition of landscape island), so the requirement would be met. However, the submittal does not contain a description of the projected attendance of the assembly events. The floor plans establish a maximum occupancy of 60 people in the auditorium and 194 in the basement prayer/library area, but the petitioner may not intend to have or project this many attendees. Although the petitioner expressed potential assembly occupancy in their attached Cover Statement – specifically in their proposed conditions – the PZB may wish to ask the petitioner to more clearly identify the potential number of people expected for an assembly.

Use, Required Ratio	Floor Area	Required parking
Private School (in this case "Elementary School"): 1 space for each classroom, plus 1 space per 200 square feet of area devoted to offices	Office: (all excluded because of C- 5 District) 20 classrooms	20 spaces
Commercially zoned assembly (in this case, "Place of Worship"): 1 space for every 5 seats in the main auditorium, sanctuary, nave or similar place of assembly and other rooms which are to be occupied simultaneously. In cases where there is no affixed seating, 1 space shall be provided for every 60 square feet of floor area.	Assuming maximum number of seats in the auditorium (60): 12 spaces. Assuming simultaneous occupancy of the prayer area: 2,904 square feet – 2,500 square feet for C-5 exemption = 404 square feet / 60 = 6.73 spaces (rounds up to 7)	12 for auditorium + 7 for prayer area = 19 spaces
	Total Required	39 spaces
	Total Proposed	42 spaces

Finally, regarding the refuse/dumpster, the existing dumpster is nonconforming, as it not enclosed. The site plan shows building a dumpster enclosure, which should bring the structure into conformance. The height and materials of the enclosure are not indicated on the site plan but would be regulated by Section 12-10-11.

VARIATIONS

Request Description:

The petitioner is electing to seek several variations related to existing conditions of the building and property, specifically its required yards (setbacks), parking lot, on-site and off-site/parkway landscaping, and signs. For this irregular corner lot, the front yard extends from the west lot line where it abuts Lee, the rear yard extends from the east lot line (Center), and there are three side yards: from the south lot line, which borders the Old National Bank parking and drive-through area; from the north lot line, which abuts Prairie; and from the west lot line portion that does not abut Lee but instead separates the ICCDA parking lot from the Old National parking lot. Based on real estate listing information,¹ the building was built originally in 1957 and renovated in 1977. Not surprising, the building is a nonconforming structure in multiple ways. While the variations requested may not be essential to entitling the operation of the school or assembly, they allow the petitioner to retain certain physical characteristics and make reasonable enhancements but not comply strictly with current Ordinance requirements. In particular, with the existing parking lot nonconforming regarding various minimum curb and landscaping uses, adding new striped spaces to it could be considered intensifying the nonconformity and requiring a full upgrade to strict adherence. Therefore, the petitioner is seeking variation to allow a partial upgrade – notably installing a landscape island down the middle of the central double-loaded parking stalls – but not installing perimeter buffer strips at the south or west lot lines. The necessary variation requests are listed in the following table:

Section	Requirement	Proposed	Type of Variation		
12-7-3.L, Table 4	5-foot minimum side yard on the north lot line (Center Street)	Existing condition: 2-foot minimum side yard	Standard		
12-9-3.A.4	Collective parking agreements shall be recorded.	n/a*	Major		
*The petitioner requested relief from having to record a collective parking agreement, but their site plan shows the parking minimum would be met on site; therefore, petitioner has not submitted a collective parking agreement.					
Related to Parking Lot Design and Landscaping					
12-9-6.D.	Install curb at least 3.5 feet from property lines at the parking lot perimeter.	Existing conditions: The south and west perimeters would not have curb.	Major		

¹ Loopnet (2023). Accessed July 6, 2023 at https://www.loopnet.com/Listing/733-Lee-St-Des-Plaines-IL/3989538/

12-10-7	Parkway landscaping/trees with species and amounts as specified (applies here only in a small portion at near the corner of Prairie and Center)	Existing conditions in the area where the regulation is relevant.	Major	
12-10-8.B.	Install perimeter parking lot landscaping at the south and western edges of the parking lot/lot lines	As shown in the site plan, install an interior landscape island but do not install perimeter landscaping at the south and west edges of the parking lot.	Major	
Related to the Existing Pole Sign near Center				
12-11-4.G	Pole and monument signs shall be required to provide and maintain landscaping at the base of the sign	Existing conditions: no landscaping	Major	
12-11-5.A.	No pole sign shall be constructed closer than five feet (5') from any property line.	Existing conditions: sign installed at lot line	Major	

Standards for Text Amendments:

The following is a discussion of standards for zoning amendments from Section 12-3-7.E of the Zoning Ordinance. Rationale for how the proposed amendments would satisfy the standards is provided here and also in the attached Petitioner's Responses to Standards for Text Amendments. The PZB may use the statements below, use the petitioner's responses, or adopt its own rationale.

1. Whether the proposed amendments are consistent with the goals, objectives, and policies of the comprehensive plan, as adopted and amended from time to time by the City Council;

<u>*Comment*</u>: Although the Comprehensive Plan illustrates the 700 block of Lee Street as "Higher Density Urban Mix with Residential," a school use can (i) provide the kind of regular, daily activity that bolsters the Central Business District and (ii) provide a nearby educational option for the many (and growing number) of nearby households.

PZB Modifications (if any):

2. Whether the proposed amendments are compatible with current conditions and the overall character of existing development;

<u>Comment</u>: The amendments appear to be compatible because they reflect existing conditions on the east side of Lee Street. On the west side, the property is vacant and ripe for redevelopment, but the amendments would not automatically entitle a school; they simply expand the possibility for the conditional use process. The City would not be bound to approve a conditional use on, for example, the 750 Lee Street property on the west side of the street.

PZB Modifications (if any): _____

3. Whether the proposed amendments are appropriate considering the adequacy of public facilities and services available;

<u>*Comment*</u>: The hub for services that private schools may need (e.g., Police, Fire) are concentrated in the Central Business District already. The 700 block is directly adjacent to the 800 block, where a conditional use for private schools is already possible.

PZB Modifications (if any):

4. Whether the proposed amendments will have an adverse effect on the value of properties throughout the jurisdiction; and

<u>*Comment*</u>: The proposed amendments are not likely to bring a wave of private schools, and they reflect existing conditions, so there is not expected to be an effect on property values.

PZB Modifications (if any): _____

5. Whether the proposed amendments reflect responsible standards for development and growth.

<u>*Comment*</u>: Expanding the conditional use possibility for private schools in the C-5 District merely provides another option for development but does not automatically entitle their development or operation. The City would have the opportunity to review and authority to approve or deny specific requests.

PZB Modifications (if any): _____

Standards for Conditional Use

The following is a discussion of standards for conditional uses from Section 12-3-4(E) of the Zoning Ordinance. Rationale for how the proposed amendments may or may not satisfy the standards is provided below and in the petitioner's response to standards. For certain standards, comments are split between the consideration of the private school ("school") and the commercially zoned assembly ("assembly"). The PZB may use this rationale toward its recommendation, or the Board may make up its own.

1. The proposed Conditional Use is in fact a Conditional Use established within the specific zoning district involved:

<u>Comment (school)</u>: This is pending the outcome of the proposed text amendment. However, the conditional use via Ordinance Z-024-10 dates to a time when private schools were an established conditional use at this subject property.

<u>Comment (assembly)</u>: Yes, the requested use is a conditional use in the C-5 District.

PZB Modifications (if any):

2. The proposed Conditional Use is in accordance with the objectives of the City's Comprehensive Plan:

<u>Comment (school and assembly)</u>: The 2019 Comprehensive Plan illustrates this site to be used for high-density urban mix with residential. However, the Plan also dedicates a chapter to strategies to enhancing downtown Des Plaines and inspiring visitation and commercial activity. A daily use such as a school brings people downtown every day and builds downtown visitation into their routine, which makes it possible they will also patronize businesses downtown, such as a grocery store, retail store, restaurant, dry cleaner, doctor's office, or services establishment.

PZB Modifications (if any): _____

3. The proposed Conditional Use is designed, constructed, operated and maintained to be harmonious and appropriate in appearance with the existing or intended character of the general vicinity:

<u>Comment (school and assembly)</u>: Any exterior alterations proposed with this application would, if anything, enhance the property and character of the area.

PZB Modifications (if any): ____

4. The proposed Conditional Use is not hazardous or disturbing to existing neighboring uses:

<u>Comment (school)</u>: The petitioner has provided a thorough pick-up and drop-off plan, which utilizes their parking lot, to address the proposed increase in enrollment. Staff has not received any complaints about the current ICCDA's operation since September 2022, albeit with a notably smaller enrollment than what is proposed.

<u>Comment (assembly)</u>: The Board may consider whether having a potential spike of additional traffic and activity during essentially one month of the year for a few hours at a time and on occasional Fridays rises to the level of being "hazardous" or "disturbing."

PZB Modifications (if any):

5. The proposed Conditional Use is to be served adequately by essential public facilities and services, such as highways, streets, police and fire protection, drainage structures, refuse disposal, water and sewer, and schools; or, agencies responsible for establishing the Conditional Use shall provide adequately any such services:

<u>Comment (school and assembly)</u>: The existing building has been adequately served by essential public facilities and services. Staff has no concerns that the proposed use will not be adequately served with essential public facilities and services in the future.

PZB Modifications (if any): _____

6. The proposed Conditional Use does not create excessive additional requirements at public expense for public facilities and services and will not be detrimental to the economic well-being of the entire community:

<u>Comment (school and assembly)</u>: While the petitioner is offering to collaborate with City staff and departments, such as Police, Fire, and Building/CED, staff does not interpret these as being obligatory activities. On the contrary, staff expects that approved conditional uses would set reasonable conditions and expectations and set the stage for long-term compliant occupancy and operation.

PZB Modifications (if any): _

7. The proposed Conditional Use does not involve uses, activities, processes, materials, equipment and conditions of operation that will be detrimental to any persons, property, or the general welfare by reason of excessive production of traffic, noise, smoke fumes, glare or odors:

<u>Comment (school and assembly)</u>: All activities are proposed to occur inside buildings, aside from those driving, walking, or otherwise getting to and from the doors of the building. All uses must be in compliance with the Environmental Performance Standards in Chapter 12 of the Zoning Ordinance.

PZB Modifications (if any): ____

8. The proposed Conditional Use provides vehicular access to the property designed so that it does not create an interference with traffic on surrounding public thoroughfares:

<u>Comment (school)</u>: While the increased enrollment will inherently bring more vehicles to the area, the spikes will be short and should be managed to prevent stacking into Center Street (i.e., a queue that blocks or impedes traffic). Observations reported by the petitioner in their submittal, as well as anecdotal observations by staff, indicate that there is additional capacity on adjacent streets during daytime school hours.

<u>Comment (assembly)</u>: The Board may consider asking the petitioner to commit to methods to encouraging carpooling, using non-motorized transportation (walking and parking), or, if driving, utilizing nearby public parking garages (i.e., Library Garage, immediately north on Prairie, or 1425 Ellinwood/Welkin garage approximately ½ block to the north on Lee).

PZB Modifications (if any):

9. The proposed Conditional Use does not result in the destruction, loss, or damage of natural, scenic, or historic features of major importance:

<u>Comment (school and assembly)</u>: The subject property is within an already development building and thus would not result in the loss or damage of natural, scenic, or historic features.

PZB Modifications (if any): _____

10. The proposed Conditional Use complies with all additional regulations in the Zoning Ordinance specific to the Conditional Use requested:

<u>Comment (school and assembly)</u>: The proposed uses would comply with all applicable requirements as stated in the Zoning Ordinance.

PZB Modifications (if any):

Variation Findings:

Variation requests are subject to the standards set forth in Section 12-3-6(H) of the Zoning Ordinance. Rationale for how the proposal addresses the standards is provided in the attached petitioner responses to standards, with some comments from staff below. The Board may use the provided responses as its rationale, modify, or adopt its own.

1. Hardship: No variation shall be granted pursuant to this subsection H unless the applicant shall establish that carrying out the strict letter of the provisions of this title would create a particular hardship or a practical difficulty.

Comment: See petitioner's responses to standards.

PZB Modifications (if any):

2. Unique Physical Condition: The subject lot is exceptional as compared to other lots subject to the same provision by reason of a unique physical condition, including presence of an existing use, structure, or sign, whether conforming or nonconforming; irregular or substandard shape or size; exceptional topographical features; or other extraordinary physical conditions peculiar to and inherent in the subject lot that amount to more than a mere inconvenience to the owner and that

relate to or arise out of the lot rather than the personal situation of the current owner of the lot.

<u>*Comment:*</u> The subject property is an irregular shape, having a lot line fronting on three different streets while also being a corner lot. In staff's view, this is truly unique. See petitioner's responses to standards for more.

PZB Modifications (if any):

3. Not Self-Created: The aforesaid unique physical condition is not the result of any action or inaction of the owner or its predecessors in title and existed at the time of the enactment of the provisions from which a variance is sought or was created by natural forces or was the result of governmental action, other than the adoption of this title.

Comment: The petitioners did not create the unique shape and dimensions of the lot. See petitioner's responses to standards for more.

PZB Modifications (if any): _____

4. Denied Substantial Rights: The carrying out of the strict letter of the provision from which a variance is sought would deprive the owner of the subject lot of substantial rights commonly enjoyed by owners of other lots subject to the same provision.

Comment: See petitioner's responses to standards.

PZB Modifications (if any):

5. Not Merely Special Privilege: The alleged hardship or difficulty is neither merely the inability of the owner or occupant to enjoy some special privilege or additional right not available to owners or occupants of other lots subject to the same provision, nor merely the inability of the owner to make more money from the use of the subject lot.

Comment: See petitioner's responses to standards.

PZB Modifications (if any):

6. Title And Plan Purposes: The variation would not result in a use or development of the subject lot that would be not in harmony with the general and specific purposes for which this title and the provision from which a variation is sought were enacted or the general purpose and intent of the comprehensive plan.

Comment: See petitioner's responses to standards.

PZB Modifications (if any):

7. No Other Remedy: There is no means other than the requested variation by which the alleged hardship or difficulty can be avoided or remedied to a degree sufficient to permit a reasonable use of the subject lot.

Comment: See petitioner's responses to standards.

PZB Modifications (if any): _____

8. Minimum Required: The requested variation is the minimum measure of relief necessary to alleviate the alleged hardship or difficulty presented by the strict application of this title.

Comment: See petitioner's responses to standards.

PZB Modifications (if any):

PZB Procedure and Recommended Conditions: Because of the multiple requests, staff recommends the Board take multiple motions: (i) recommendation on the proposed text amendment; (ii) recommendation on the proposed conditional use for private school/amended conditional use through Z-024-10; (iii) recommendation on the proposed commercially zoned assembly; (iv) a final vote on the standard variation regarding the required side yard; and (v) a recommendation on all other requested variations, which the Board could consider with one motion or individually.

TEXT AMENDMENT

Pursuant to Section 12-3-7(E) of the Zoning Ordinance, the PZB may vote to *recommend* approval, approval with modifications, or denial of the proposed text amendment. The City Council has final authority over the request.

CONDITIONAL USE / AMENDED CONDITIONAL USE FOR PRIVATE SCHOOL

Pursuant to Section 12-3-4(E) of the Zoning Ordinance, the PZB may vote to *recommend* approval, approval with modifications, or denial of the conditional use. The City Council has final authority over the request.

The petitioner suggested conditions in their attached Cover Application Statements. The Board may review them, but staff does not recommend their verbatim use, with particular concerns about (i) the reference to 36 parking spaces, when the minimum requirement (with both uses active) is 39, and (ii) a temporary occupancy allowance through 2028 pending hallway-width changes. Instead, should the PZB recommend approval of the conditional use, staff suggests the following conditions:

Recommended Conditions of Approval

- 1. Notwithstanding the desired maximum number of users, the occupancy load for the building and all rooms utilized by the use shall not exceed the maximum set by the Fire Department and Chief Building Official. This maximum may be increased only through permitted construction and alterations; provided, however, the total attendees shall not exceed the numerical limit set through this conditional use approval. Every room or space that is an assembly occupancy shall have the occupant load of that room or space posted in a conspicuous location, near an exit.
- 2. The petitioner shall complete the parking lot restriping and landscape project shown on the site plan within 12 months of approval.
- 3. No on-site food service shall occur unless a code-compliant commercial-grade kitchen were to be installed.
- 4. Any building or use expansion shall require the Petitioner to obtain a conditional use amendment.

CONDITIONAL USE FOR COMMERCIALLY ZONED ASSEMBLY

Pursuant to Section 12-3-4(E) of the Zoning Ordinance, the PZB may vote to *recommend* approval, approval with modifications, or denial of the conditional use. The City Council has final authority over the request.

However, should the PZB recommend approval of the conditional use, staff suggests the following conditions:

Recommended Conditions of Approval

- 1. Notwithstanding the desired maximum number of users, the occupancy load for the building and all rooms utilized by the use shall not exceed the maximum set by the Fire Department and Chief Building Official. This maximum may be increased only through permitted construction and alterations; provided, however, the total attendees shall not exceed the numerical limit set through this conditional use approval.
- 2. Commercially zoned assembly activities, or those worship activities not accessory to the private school, shall occur at different times.
- 3. The petitioner shall complete the parking lot restriping and landscape project shown on the site plan within 12 months of approval.
- 4. No on-site food service shall occur unless a code-compliant commercial-grade kitchen were to be installed.
- 5. Any building or use expansion shall require the Petitioner to obtain a conditional use amendment.
- 6. The petitioner will publicize on its website and actively distribute to its audience a map of nearby public parking garages, with summary instructions and directions on how to access and any hourly or time restrictions.

1065 Lee Street 733 Lee Street

VARIATIONS

The petitioner is requesting one standard variation and multiple major variations. Pursuant to Section 12-3-6.F of the Zoning Ordinance, the PZB may vote to approve, approve with modifications, or deny the Standard Variation to reduce the required side yard.

Then the Board may consider pursuant to Section 12-3-6.G a vote to *recommend* approval, approval with modifications, or denial of the Major Variations. The City Council has final authority over the request. Staff does not recommend conditions for the variations.

Attachments:

- Attachment 1: Location and Aerial Map
- Attachment 2: Site and Context Photos
- Attachment 3: Plat of Survey
- Attachment 4: Ordinance Z-024-10²
- Attachment 5: Responses to Standards for Text Amendment
- Attachment 6: Responses to Standards for Conditional Use
- Attachment 7: Responses to Standards for Variation
- Attachment 8: Application Cover Statements, Operational Plan (collectively the Project Narrative)
- Attachment 9: Stacking, Circulation, and Pick-Up/Drop-Off Plan (with projections and data)
- Attachment 10: Site Plan
- Attachment 11: Floor Plans

Chair Szabo swore in Mark Daniel, Attorney for the petitioner, Jose Pareja, Architect for the petitioner and Nayeem Syed, President of the School and Board and petitioner for the project. Mr. Syed gave some background on the school. He stated that they want to expand the building and school. They want to have the Islamic school and academy. Prayer is part of the curriculum. To operate the school and maintain the building, they cannot afford to maintain the building with the existing number of students and need more enrollment. They think there will be more apartments occupied and stores shopped at in this area by the new occupants of the building.

Mark Daniel stated that they are in this process later than they hoped with opening the school. They hope to have PZB recommendation after going through the history. This was an office building that was previously occupied by the Greek American Restaurant Association. All the first floor was used for school services. There were assumptions made prior to the office building being purchased that caused a fire drill with the city to allow a temporary certificate of occupancy. They knew they would have to convert the second floor a bit, but they entered a temporary occupancy with the city to cap the students at 60. He gave a memo for KLOA that were consulted about student drop off and traffic counts. They did this during a busier time of year when more students were in cars. At the end of the year, parents and kids bring more things

² 2022 compliance agreement between City and owner/petitioner available upon request to City staff.

home in cars and there is less walking. KLOA had a projected vehicle count the last 2 days of school. There was less in the afternoon because ICCD has a half day program.

He stated that they want to preserve the pole sign. It turns in towards the property, so it does not obstruct the sidewalk. They intend to reface and paint the sign. There is a city improvement adjacent to the sign. There is a landscaping improvement that abuts the parking lot too.

Mr. Daniels stated there is a prior conditional use for a school, but it was for the first floor only. Every variation we are asking for existed in 2010. The parking lot, sign, and property conditions are all existing with these variations. In 2022, there were reductions agreed to. From the petitioner's perspective, it is a reduction. ICCD had a conditional use for only part of the first floor. They are looking to accomplish a few things. The first thing is to get the school entitled for the whole building. It is a two-story school with a worship area in the lower level. On the second floor, there is a large classroom, and they want to create a larger auditorium. Otherwise, it is all classrooms, computer labs, art labs, kitchen/eating area. Those are all generally on the first floor. As far as the auditorium is concerned and how they phase things, in 2022 they didn't have a lot of choices. They didn't want to appeal city staff's decisions, they needed staff's help otherwise the students would have lost their school.

Mr. Daniel stated the conditional use is phrased as either new permit or amending the permit. This is a fallback. They are asking for a text amendment. Schools are only allowed on the block with the Little Bulgarian School. They are hoping the City will add schools to the permitted uses on this block. They anticipate building up over time. All these numbers are dependent on permitting, life safety, etc. These numbers on the screen are permit issues that we are dealing with. Those are estimations. They may not get to 233, but it might be 228. It depends on how permitting goes.

He stated the text amendment is common sense. A lot of schools have a pre-k and a kindergarten program. In the code we propose that you add specifically that language – that if they have an elementary school, they can operate pre-k and K in the same place. Right now, ICCD operates pre-K, K and 1-8. That is the text amendment. They changed "located on" to "frontage". The amendment is consistent with the comprehensive plan. They have reached out to a consultant that showed there is a vacancy rate of 22% for certain office types in this area. This is an office building. This building is Class A Office but once rehabbed it probably falls into the Class B category. The occupancy in Class B are greater and the sublets are less available.

Mr. Daniels said the office use is slow to recover. The petitioner views this case as a way to get folks downtown. You can expect a good number of families to use downtown associated with this school. The C-5 and R-4 districts are focused on multifamily residential. They have townhomes directly to the south and the other side of the street. They have condos and apartments in every direction. It makes sense to have supportive uses in C-5. Some of the kids will want to go to a private school and it makes sense as a supportive use for those residents.

Typically, you try to locate schools on collectors or arterials. In the past in planning, in a subdivision, you would take land for a school. Because all the land is built up, that doesn't happen often, larger schools can be on arterials and smaller schools on collectors. Lee St is an

important arterial in town and Prairie Ave is a collector. As far as the amendment is concerned, the amendment is reflective of the use that has been there since 2010. There is a collection of uses downtown that include a lot of institutional uses. They have a history of schools across the street with St. Mary's. St. Mary's Church is still there. At the bottom of the map [referring to slide] Plato Academy moved. Little Bulgarian School is nearby, as well as the history center and the library. This area is used to this type of traffic during the day. Those big parking lots are for people to park downtown. Some of the surface parking is under private ownership too.

Mr. Daniels stated as far as trends in the area, you have your retail situated along the Metra line, with service uses along Lee St. They are not interrupting a service corridor –Lexington Townhouses and the bank are neighbors (they have been terrific to work with for our applicant). This is a good adaptive re-use of a building, even if it was a new school today. To the extent the students use the library, they have end of the day classes where one class is engaged in library enrichment and that supports the property value. More traffic leads to more service traffic in the area. Those greater ADTs are supportive of retail uses.

Mr. Daniel stated that this text amendment is responsible planning – it is still a conditional use. You evaluate each case on its merits. They are at the end of the block, not technically defined as a through or corner lot, but it looks like both. They fall through some cracks in the definition of code, but they are at the end of the block. It might be a different story if we were not at the end of the block or closer to Little Bulgarian. That is the core responsibility of keeping this use as a conditional use with this text amendment. Schools are one of the most important assets in Des Plaines.

Mr. Daniel said they use the "up to 233 number" for students, but Allen (building official) will have a big say in that. In terms of occupancy, they are aiming for use of the entire building. Parking modifications they are looking at are fairly minimal. The handicap parking is outdated and oversized. They can increase parking to 42 spaces, we have 38 right now. They would restripe the lot. The plan in the packet shows a landscape island in the middle of the parking lot between two rows of parking. With respect to the landscape island, we would like to stripe that first. If staff demands landscape on the island, they will do that. We will have phasing of modifications to the building over time. Ultimately, they will have a larger auditorium. The main entrance – there will be a slight change here. They will not be using the entrance at all. The Lee St entrance will be the accessible route to the building; appropriate plans will be made for that. If there is an accessibility challenge, they believe most parents will take them through the opposite side of the building. For the conditional use for the school and assembly – they will not be operating simultaneous. If school is in progress, you will not operate simultaneously.

He touched on the student loading areas. There are notes in the staff report too. The bank has been a great neighbor, they have used the parking for non-bank hour parking. They confirmed with Old National that they still have the relationship to use it during non-banking hours. The fifth request is asking to waive the collective parking agreement. It is a large property, capable of further development. Their plans show they can load and unload and park in full compliance with the ordinance. With the morning and afternoon loading, we will satisfy the code standards.

1065 Lee Street	Conditional Use	23-035-CU
733 Lee Street	Text Amendment/Conditional Use/Variation	23-036-TA-CU-V

The most common use of Old National will be during Ramadan, the 30-day period that gets earlier and earlier every year per the calendar. Iftar is the dinner that breaks fast; these events can occur with the school or outside people. You can have people worship in the basement and people like me who will remain in the auditorium and not pray. That would be the most intensive use. That goes from 6:30 to 10:30. It is later in the summer months and ends earlier in the winter months (it is timed by the sunset).

Mr. Daniels stated as far as the use of Old Second, the school has already had assembly uses where they have used the lot and worked well. However, they meet the parking requirements and do not need the collective parking requirements, but they wanted to put this in just in case we come up shy with the parking requirements. There is a direct route through the bank parking lot to the building. It extends along the dumpster in the plan. As far as the conditional use standards are concerned, there are two bases: the first is the 2010 ordinance, possibly being amended. For more clarity, they think we could have a new conditional use. The other conditional use is the assembly use. They are in the position where they would meet higher density needs downtown. You talk about the importance of institutions in the comprehensive plan. The older churches are all included in the comprehensive plan and all these private schools in the area do contribute too.

He stated there is history of schools here, with Plato in this location and in the last year with us in this building. They did use KLOA to do projections/traffic although they have not had issues. Center Street is either residential or institutional. You do have a rear exit for Old National and a small house that might be used for business on Center Street, but it is similar to streets near Elmhurst, on the right a public school and the left a private school. I asked staff to ask the police department to help with street drop offs. The street is not that busy for drop offs. The police and KLOA agreed that drop off should be done on site instead. They can pull in all the traffic from center and have a wide enough drive aisle and load vehicles into the property and have the students exit the vehicles according to a loading plan. Certainly, they can handle a large amount of traffic with three lanes and capacity on Prairie. Approaching the school is one lane, expanding to two towards the library.

Mr. Daniels said you could have between 60-200 people based on occupancies, but there is a difference between building and zoning. For school assembly, nothing out of the ordinary. He said he is Catholic, he went to a Catholic middle school, we worshipped and prayed in the school. It is no different here, but it is on different floors. He mentioned the ADA route. There is a clothes donation box they would like to keep open for the safety of donations and not enclose with the dumpster. In the top right, they note no use of Prairie (referring to site plan on slide). They have a deferred landscape curb that we will install once staff have told us to do it. They want to first get a handle of student loading before landscaping. For student loading we do want to meet with staff and the police annually, so they know our plan and ebb and flow.

The pole sign was mentioned – down the road, it will be a monument sign. Old National has a monument on its building. They would not want to put it on our driveway. There was a parking space that we eliminated during planning, to aid pedestrian traffic. They have the option for a right in/right out if needed.

1065 Lee Street	Conditional Use	23-035-CU
733 Lee Street	Text Amendment/Conditional Use/Variation	23-036-TA-CU-V

Mr. Daniel discussed the hours of the day – Uses will not be simultaneous for the school and worship. The prayer will generally be between 12:30 and 2:30. The school closes for an hour before this prayer happens because they need time for people to get into the building. Classes would end and there would not be an after-school program. He mentioned Iftar during Ramadan. As far as the hours during the day, these are estimated. For the purposes of this hearing, they are showing they can handle student loading without relying on Old National. Our analysis is only based on our property – right in, right out and two lanes with 20 ft vehicles. When preparing this slide, he used what he learned in facility planning. They say you should unload in groups of 3. KLOA says it might be easier to load in 6-7. They can fit 6-7 in the lot, have those pull out, and pull the next 6-7 in. They have 11 cars behind the 6 or 7 actively loading. 6-7 come in, children exit the vehicle, once they are clear, the students pull out. They can be directed to a "reserve space" if needed. Any spaced with a D is s drop space [referring to site plan on screen]

He explained how they stick with the 2-3 minute drop off. If half the kids are released at one time and not another, how do we guarantee parents arrive at the same time? There are apps on your phone where ICCD can at any given moment tell the parent when to pick up their child. The parents then come in at that time. If you have children in the same grade, one is in the later grade, you can load them all in the cars. Right now, they park in the spaces and take the kids out. They will not be doing that with the 200 students. This is handled by teachers and volunteers. Where do they park? The E spaces. A lot of the teachers and volunteers have kids at the school. The table here is an interval for the 6-7 cars [referring to slide]. During the noon period, people may be able to park on site. In the afternoon drop off, it is not a peak hour, and it is 50 minutes in the worst-case scenario.

Mark Daniel said they don't share plans too publicly of schools, they are on file with staff. The auditorium is on this slide [Phased Auditorium Expansion Slide]. The capacity of 233 is based on this whole area being an auditorium and not classroom space. We are setting a cap for the analysis. The other assembly space is in the lower level. There are a few numbers there, 52 and 142 [worship and reflection slide]. The use of the area – there are bookcases along the back wall. We anticipate 145-165 people, even though the building occupancy is higher. There is no food or service in this area. People worshiping would move upstairs, this area downstairs is only for reflection. It is a more passive use. The basic standards for conditional use – there is no disturbance from a school in this area. You might see students walking to the library, but there are crosswalks and sidewalks to this area. No demand on public services. They will not interfere with the PACE bus stop. No offensive activities. This was planned for these uses from a parking perspective. The office use can generate traffic and parking demand. You can see the stacking and movement. They are getting cars off the street where no traffic will be blocked.

He stated they are preserving the building because they are asking for variations for the existing building. The 42 parking spaces is more than the school and assembly uses. He makes the note here that if you are willing to allow us to stripe the landscape island in the parking lot, they will install when the city demands it. They need to re-stripe to get to 42 spaces.

He said for the conditional use for a commercial district assembly, there is not much difference in the styles of assembly. [Reading the Conditional Sue for Commercial District Assembly Slide]. A

Conditional Use Text Amendment/Conditional Use/Variation

lot of the same planning occurs that is discussed with the school. Nothing hazardous. Similar conclusions to the school. For the record – they would like the school conditional use to run with the land. For the commercial district assembly, they are planning and contemplating where it will occur; they are ok with this running with the school because the new use could have a different type of assembly use. The Islamic Community Center is something many people from this school belong to; this is not a replacement for the mosque. Please note the Iftar timeframe towards the end – people start to leave around 9:30. 10:30 is when it ends. The time it is most busy is summer solstice.

KLOA is not here tonight to speak, but they will continue working with the petitioner. If they did not get approval by council, they will get an agreement from Old National to get a collective parking agreement and talk about daytime loading and unloading. KLOA will help with that, and they will help with the student loading plan. They use a lot of care in our student loading. Everyone has a radio. Teachers and students advance based on the time in that app. Teachers check students in and out, it is a very meticulous careful process. You have intervals where you have these cars coming in. These are accounted for by groups of classes. PreK and K come in first.

On the variations sought, it is similar. They ask you to preserve what they have. There is hardship with the existing building. They did not plan the site. Prairie was widened after the building was constructed and that is why they are short on setbacks and landscaping. They have multiple front yards, but the code will not define it as a through lot because it is offset. Existing conditions are what we are dealing with. They are not increasing the non-conformity in any respect.

Jose is the architect and will answer any questions. It is important to note the one issue staff will discuss during permitting is the dumpster location. In this photo [on screen] where the cement pad is to the entrance of the property, that is where the dumpsters are now (unscreened). The dumpster in the plan they are proposing is going to be about midway along the parking spaces [on screen]. The relocation south will not be an issue for any reviewer of the plan for substantial conformity.

He has worked with the applicant continuously since April and in July, August, September. The building is a good building for a school of this sort and capable of interior remodeling. Something to remember about schools – children don't forget the area they went to school; they remember all the locations and when they are older, they go back even if they are in a different location. It puts downtown in the minds of hundreds of students over the years. I am happy to answer questions.

Mr. Syed, Petitioner stated they need to use the entire building and they want to work with the city to have a good relationship and make this happen.

John Carlisle, CED Director, gave the staff report. He explained that the petitioners, ICCDA, is requesting to amend Section 12-7-3.K of the Zoning Ordinance, specifically the Commercial Districts Use Matrix. Currently in the C-5 District, conditional use permits allow private schools only in the 800 block of Lee Street (currently the Little Bulgarian School/Center is in this block).

1065 Lee Street	Conditional Use	23-035-CU
733 Lee Street	Text Amendment/Conditional Use/Variation	23-036-TA-CU-V

This limitation was established in June 2018 (Ordinance Z-17-18). The requested text amendment would extend the possibility of private schools to the 700 block of Lee Street, but a conditional use would still be required, which means the PZB would hear, and review and the City Council would have to approve any request for such school. Mr. Carlisle went over the Location and Map including Lot Area, Previous and Existing Owners and the Building Exterior. He explained the Site Photos with her proposed Textament. He explained the Site Plan including trash enclosure, parking plan and landscape island. He explained the Existing Aerial and Parking Requirements. Mr. Carlisle explained Principal and Accessory Uses for the property. There is also a Primary Principal use which is the school and a Secondary Principal Use which is the Assembly and an Accessory Use which is for religious functions related to the school. He discussed Commercially Zoned Assembly, maximum occupancy and parking requirements.

Mr. Carlisle discussed the Four Recommended Conditions of Approval for the CONDITIONAL USE / AMENDED CONDITIONAL USE FOR PRIVATE SCHOOL

- 1. Notwithstanding the desired maximum number of users, the occupancy load for the building and all rooms utilized by the use shall not exceed the maximum set by the Fire Department and Chief Building Official. This maximum may be increased only through permitted construction and alterations; provided, however, the total attendees shall not exceed the numerical limit set through this conditional use approval. Every room or space that is an assembly occupancy shall have the occupant load of that room or space posted in a conspicuous location, near an exit.
- 2. The petitioner shall complete the parking lot restriping and landscape project shown on the site plan within 12 months of approval.
- 3. No on-site food service shall occur unless a code-compliant commercial-grade kitchen were to be installed.
- 4. Any building or use expansion shall require the Petitioner to obtain a conditional use amendment.

Mr. Carlisle discussed the six Recommended Conditions of Approval for the CONDITIONAL USE FOR COMMERCIALLY ZONED ASSEMBLY

- 1. Notwithstanding the desired maximum number of users, the occupancy load for the building and all rooms utilized by the use shall not exceed the maximum set by the Fire Department and Chief Building Official. This maximum may be increased only through permitted construction and alterations; provided, however, the total attendees shall not exceed the numerical limit set through this conditional use approval.
- 2. Commercially zoned assembly activities, or those worship activities not accessory to the private school, shall occur at different times.
- 3. The petitioner shall complete the parking lot restriping and landscape project shown on the site plan within 12 months of approval.
- 4. No on-site food service shall occur unless a code-compliant commercial-grade kitchen were to be installed.
- 5. Any building or use expansion shall require the Petitioner to obtain a conditional use amendment.

6. The petitioner will publicize on its website and actively distribute to its audience a map of nearby public parking garages, with summary instructions and directions on how to access and any hourly or time restrictions.

Chair Szabo asked how many spaces are the Welkin development and the library?

John Carlisle stated he believe the Welkin is 79, but is not certain, and he is not sure recollect about the library. I

Member Saltenik asked the petitioner about the motivation for the landscaping variation. Why not put in the landscape buffer in the parking area?

Mark Daniel stated the history with parking in the property is that parents would park in the spaces and pull through. They have the circulation plan, but it will allow the school to have some flexibility to figure out how the site flows and provide the option to discuss.

Member Saletnik asked if there is still a lack of confidence about the current scheme working, then why do they want to have flexibility to change it? Why the reluctance?

Mark Daniel stated they don't have a problem installing it, that is not the issue. They will not have enough demand for a few years that would require that.

Member Weaver said I am very happy with the plan for the building. I am certainly fine with having the Islamic School there. You put a lot of thought in how to make it work and the growth plan. However, one thing bothers him and maybe this comes from the City. In a number of number of materials there is a discussion about people in this high-density urban development walking places. Some portion of the students will walk to the location. Yet, Member Weaver finds this plan, which he sees over and over again in suburban planning, is really hostile to pedestrians and walking. The only place you can safely walk in this area are the city sidewalks of Center St, Prairie Ave, Lee St, and that one green stripe you have. If you look at the Old National Site, you have to walk through parking and traffic to go into the bank. The whole bank is centered on the parking lot. They have a door on Lee St, but they have blocked the door. You are supposed to walk through this. Adults going to the bank, no big deal and hope we don't get hit. Here, we are dealing with children. The site is devoid of places to walk. There is no connection to Center St. If someone drops their kids off on Center St or Prairie, they have to walk through the vehicular entrance to the parking areas. It seems really hostile to pedestrian movement, not terribly safe, and we think that the problem is that cars are the solution and use a Spot Hero plan for loading/unloading. You are assuming in our suburban downtown that you have to drive. This is not limited to your plan. There is a lot of good thought done with this, he wishes the school well, but we are guaranteeing no one will walk. Member Weaver is disturbed by that and maybe that is the direction the City points people to.

Mark Daniel stated for zoning purposes, they want to show they can take in all the traffic. They don't talk about our 25% walking. In the submittal, you will see the table with far fewer vehicles coming in the morning and afternoon periods. That relies on 50% have multiple children in the family, 25% walking. For the purposes of zoning, they had to show it could handle traffic

without creating a nuisance. I understand the walkability concern. He stated, in our experience, the parents pay attention to the app. I can't tell you it will pour rain one afternoon and everyone needs a car. You have the worst-case scenario presented. They are showing what would happen if they were all driving.

Member Weaver said the accessible path, you have people going through the back door to the school. The entrance is in the back, theoretically, if you had a wheelchair, you would have to go through the front. Over time, the school will find they need to lock the door because they can't monitor it.

Mark Daniel stated that it has to be monitored. It must be open by federal law.

Member Weaver asked - Is that a paid employee or a volunteer?

Mark Daniel said there is a collection of administrative office people and volunteers.

Mr. Syed stated they have an armed security guard on site, and he will monitor the building.

Member Weaver said this is the high price of making people arrive with cars in the back. It is unfortunate. Shopping centers are also very hostile to pedestrians.

Mark Daniel stated they have a walking aisle on two sides of the parking lot.

Member Weaver said I do think the City ordinance drives you to do this. I don't see a way out of this. You are using every sq ft for vehicular circulation. How would the sidewalk at the top connect to Center Street? There is the most minimum space for walking. It solves your required minimums; the result of the required minimums is that you end up with almost no pedestrian space.

Mark Daniel: There is a city improvement along the Center Street lot line that is pretty thick.

Member Weaver said you have a retaining wall there.

John Carlisle stated the petitioner amended their floor plans with the Lee Street to make it the accessible route to public transportation. You may want to ask the petitioner how the walkers are arriving on foot. They might cross Lee Street to get to that door.

Chair Szabo asked where the retaining wall on Center Street is? And asked if they could put a cut in there somewhere and have a stair go up where the residence used to be with the former bike shop.

Mark Daniel stated that if you look at the main entrance and the gym – the gym extends on the east side of the building. If you exit going westbound, there is a doorway going to the sidewalk, door 2 and 3.

Member Weaver stated that it has a huge, sloped step and concrete. And that is definitely not an accessible route.

Mark Daniel said it has to be the shortest route to the bus station.

Member Weaver stated chances are since you don't have high school students, no one is getting off a PACE bus, but some people with limitations to their walking abilities could potentially come through that side. There is a lot of difficulty getting to the back of the building, whether crossing Lee Street, the parking lot, the Old National Bank. There is no way for someone with mobility impairments to get them in.

Mark Daniel stated the requirement would be that it needs to be a level grade. The access issue we wanted to avoid impact to that bus stop. The standards do avoid having us change Lee Street. As we sit with Staff and the Police Department, we can have a parent monitor the Lee Street entrance. The parents can monitor that doorway. We are trying to show that we can meet the standard.

Member Weaver said I don't see a way to accomplish walkability for this project. I don't want to vote it down for that. I am disappointed in a lot of places approach to walkability. I have no problems with the school. I think the walkability here is poor and a lot of poor walkability in Des Plaines.

Chair Szabo stated I think it is important to voice your concerns in the record. Any other questions from the board? Anyone in the audience with questions or in favor or objecting. Can I see a show of hands for people objecting? [no hands]

Chair Szabo swore in Daniel Cartalucca, neighbor of the property. He said we are the little triangular building on the corner. We are able to get that re-zoned in the past for the residential use. Tom Weaver and Mr. Cartalucca discussed walkability in the area. We live next door to the building and have since 1993. That greyed out corner on the site plan would be a perfect location for a cut in the wall and make stairs to where Prairie meets Center, with the landscape area there. There used to be a bus bench there and people would use that to step into the parking lot. There is already an existing sidewalk along that building to that location. If they did a staircase there, it would allow people to come from the library rather than walk toward the vehicular entrance. It seems like that would be a logical place. We watched the old brick veneer crumble for a few years, that wall could be dodgy, but it would be a good location for the stairs. We are neighbors of this project and the previous Plato Academy and we are in favor.

Mr. Paeja, Architect for the project stated looking at the area, from the paving it leads to the sidewalk. No pedestrian would be crossing vehicular traffic if that was done. We want anyone who needs to use the ramp to not have to go through the building to leave. That is a way to have people access the street without having them transverse traffic, but that is on city property.

Chair Szabo stated that if the owner is in favor, that would be a big plus.

Daniel Cartalucca: Plato was there, the kids would use the library and playground and would climb that wall. It would be safer to have that here.

Chair Szabo swore in Azif Hussain. He stated I am in favor of the school and the mosque, but with a few exceptions. Security is extremely bad. My three kids went to the school last year. I have given \$50,000 to the school myself. I am very disappointed. Before they make a plan for the mosque, they must have a good security program. Anyone can go to the basement. Doors are

locked all the time upstairs. There is no security often at the site and it is a dangerous situation. The owner of the building has sent me an email about how this would be unsafe, he offers to send the email to the board. You can go anywhere in the building. I have asked several times for a security officer.

There are many issues with the parking lot besides security. He is in favor of the school and mosque with security improvements, with a separate door from the mosque so no one can enter from school to mosque, mosque to school. Many members of the school agreed it is a safety concern and no one has done anything about it. I can take a camera and show you that you can go anywhere in the building.

Chair Szabo stated a possible solution for security might be some kind of closed-circuit camera system to see who is coming and going even if they are not at their posts. That is something the petitioner can discuss with the City.

Mr. Hussain stated I believe there should be a separate entrance for the mosque and the school. It could be a dangerous situation and it needs to be addressed before the school can be in the same building as the mosque.

Chair Szabo swore in Irfan Mohammed. He stated that he is one of the founders of the school. As a board member and parent, we cannot compromise. We are new and we are not sure how to get into the Des Plaines system. We have security doors and alarms and have cameras. We are still figuring out how to make it one entrance/exit and be reasonable to everyone. He is glad you have opened the Prairie entrance. School is segregated from walkers. We haven't seen anyone come without our permission. The school knows who is coming and going, everyone must have an appointment to come into the building. That is the policy. Door 2 and 3, it is possible to separate entrances/exits to the school and mosque.

Mr. Daniel stated they have a computerized door and have a camera already installed. They have a prayer hall open to the public and for the school. There is always room to improve and they are enforcing security with a security guard. The school is planning to have new security for next year.

Mark Daniel wanted to note for the record that they had no problem with conditions recommend by staff.

A motion was made by Board Member Weaver, seconded by Board Member Hofherr to recommend that the City Council the changes to the Text Amendment that involve the 700 Block of Lee Street as drafted by staff.

AYES:	Weaver, Hofherr, Saletnik, Szabo
NAYES:	None
ABSTAIN:	None

*****MOTION CARRIES UNANIMOUSLY ****

A motion was made by Board Member Weaver, seconded by Board Member Hofherr to recommend that the City Council amend the Conditional Use Permit for the Private School Use with the four recommend conditions of approval drafted by staff.

AYES:	Weaver, Hofherr, Saletnik, Szabo
NAYES:	None
ABSTAIN:	None

*****MOTION CARRIES UNANIMOUSLY ****

A motion was made by Board Member Weaver, seconded by Board Member Hofherr to recommend that the City Council approves the Conditional Use for the Commercially Zoned Assembly with the six conditions of approval drafted by staff.

AYES:	Weaver, Hofherr, Saletnik, Szabo
NAYES:	None
ABSTAIN:	None

*****MOTION CARRIES UNANIMOUSLY ****

A motion was made by Board Member Weaver, seconded by Board Member Hofherr to <u>APPROVE</u> the required minimum side yard on Center Street from five feet to two feet.

AYES:	Weaver, Hofherr, Saletnik, Szabo
NAYES:	None
ABSTAIN:	None

*****MOTION CARRIES UNANIMOUSLY ****

A motion was made by Board Member Weaver, seconded by Board Member Hofherr to recommend that the City Council approves the five Major Variations involving 12-9-6.d, 12-10-7, 12-10-8.b, 12-11-4.g and 12-11-5.a.

AYES:Weaver, Hofherr, Saletnik, SzaboNAYES:NoneABSTAIN:None

*****MOTION CARRIES UNANIMOUSLY ****

Member Weaver stated that he left out the major variation for the collective parking agreement. He encourages ICCD to keep working with the Old National Bank. He thinks it would be great if you can make good use of all the extra asphalt that is available after hours.

Mark Daniel asked if they could leave that pending and work something out with Old National Bank, could they avoid a reapplication?

John Carlisle stated that the board has made their motion and City Council can make other recommendations.

Chair Szabo asked that minutes include the recommendation in this meeting to add a walkway off Center Street at the corner of Prairie and Center., so they can utilize the sidewalk that runs behind 1445 Prairie Avenue. Strongly recommended.

ADJOURNMENT

The next scheduled Planning & Zoning Board meeting is Tuesday July 25, 2023.

Chairman Szabo adjourned the meeting by voice vote at 9:10 p.m.

Sincerely, Margie Mosele, Executive Assistant/Recording Secretary cc: City Officials, Aldermen, Planning & Zoning Board, Petitioners



COMMUNITY AND ECONOMIC Development department

1420 Miner Street Des Plaines, IL 60016 P: 847.391.5380 desplaines.org

MEMORANDUM

Date:July 21, 2023To:Planning and Zoning Board (PZB)From:Jonathan Stytz, AICP, Senior Planner ISCc:John T. Carlisle, AICP, Director of Community and Economic Development %Subject:Zoning Text Amendments Regarding Accessory Structures

Issue: The petitioner is proposing the following text amendments to the Zoning Ordinance: (i) modify Sections 12-3-11 and 12-8-1.C to create separate allowances for *detached* parking structures based on use, provided that certain larger garages would be subject to building design requirements; (ii) modify Section 12-8-1.C to increase the maximum size for accessory structures that are not detached garages and carports (e.g., sheds, gazebos, pergolas); and (iii) modify Section 12-13-3 to revise the Accessory Structure definition to clarify the types and characteristics of the structures that are included in this definition.

PIN:	Citywide
Petitioner:	City of Des Plaines, 1420 Miner Street, Des Plaines, IL 60016
Case Number:	#23-043-TA
Request Description:	The City of Des Plaines is proposing amending the Zoning Ordinance to clarify regulations for detached parking structures based on use, to increase the maximum area for accessory structures except detached garages and carports, and to amend the accessory structure definition.

Background

Chapter 8 of the Zoning Ordinance, "Accessory, Temporary, and Specific Use Regulations," was created to identify and differentiate regulations for both uses and structures that are either: (i) incidental and subordinate to a principal use or structure in the same zoning lot (e.g., detached garages and sheds); (ii) temporary in duration and construction (e.g., tents and yard sales); or (iii) are sensitive uses requiring tailored regulations (e.g., cannabis business establishments and residential care homes). The scope of the proposed amendments focus on the first of these—accessory structures—which are currently defined in Section 12-13-3 as follows:

ACCESSORY STRUCTURE: A structure which is detached from a principal structure and is located on the same zoning lot and incidental and subordinate to the principal structure. Accessory structures are characterized by having a solid roof, and include, but are not limited to, detached garages, sheds, greenhouses, and gazebos. Accessory structures may not exceed the height of the principal structure. As identified in the definition, an accessory use is intended to be incidental to the principal use or structure served (i.e., accompanying but not a major part of the property). For example, a detached garage is incidental to a single-family residence (e.g., provides covered parking for the residents) but a garage is smaller in area and height than the residence and not occupied as much. Due to the incidental nature of accessory structures, the Zoning Ordinance does not permit the construction of an accessory structure without the prior construction of a principal use or structure. Zoning also requires that accessory structures are (i) operated and maintained under the same ownership and on the same lot, or adjoining lots, as the principal use or structure and (ii) subordinate in height, area, bulk, and location to the principal use served.

Section 12-8-1.C also identifies the general bulk regulations for accessory structures in all zoning districts with specific height, setback, location, size, and quantity restrictions. There are two main categories of accessory structures identified: (i) detached garages and carports; and (ii) other accessory structures (e.g., sheds, pergolas, gazebos, etc.). These categories share regulations related to height, setbacks/minimum distance from lot lines (with some exceptions), and location, but differ in regard to *quantity of structures* and *size permitted*. In regard to quantity, the Zoning Ordinance allows for up to two accessory structures on any property; however, only one garage (attached or detached) is permitted. In the case of a property with a detached garage or carport, one other accessory structure is permitted. In regard to size, a detached garage or carport can be up to 720 square feet in area—on all residentially zoned lots, regardless of their use—while other accessory structures are limited to 150 square feet in size.

Accessory Structure Definition

The current accessory structure definition describes an accessory structure's incidental and subordinate relation to a principal use, how these uses are characterized (e.g., having a solid roof), and provides a non-exhaustive list of types of accessory structures (e.g., detached garages, sheds, greenhouses, and gazebos). However, the definition does not list many of the most common types of accessory structures—such as pergolas or carports—and does not fully encompass all of the characteristics of accessory structures—such as specially structures such as pergolas which can have semi-open roofs—even though it is intended. As such, staff is proposing to amend the definition to clarify that both flat and semi-open roofed-structures are all classified as accessory structures. The proposed amendments also add *pergolas* and *carports* to the list of accessory structures specifically identified in the definition. While the list is still non-exhaustive and is intended to remain so, the addition of these two accessory structures helps to further clarify what is classified as an accessory structure, especially commonly-installed accessory structures such as a pergola.

Accessory Structure Bulk Regulations

The current bulk regulations in Section 12-8-1.C appear to contemplate only (i) a single- or two-family dwelling or (ii) a non-residential lot. They do not consider the possibility for detached garages serving townhouses or multifamily. As such, staff is proposing to differentiate regulations for accessory structures based on the principal use of the property. The proposed amendments split subsection C of Section 12-8-1 into three separate portions: (i) Single-Family Residential and Two-Family Residential uses; (ii) Townhouse Residential and Multifamily Residential uses; and (iii) Non-Residential uses. In addition, some regulations are reorganized into table format.

• Single-Family Residential and Two-Family Residential Uses: Aside from one proposed change, staff intends to retain the existing bulk accessory structure regulations in Section 12-8-1.C for these types of uses given that these regulations are appropriate for lower density residential developments. The proposed change intends to increase the size allowance for accessory structures—excluding detached garages and carports—to 200 square feet. Staff's observance and attached Accessory Structure Research indicates that many pre-fabricated accessory structures like sheds, gazebos, and pergolas are greater than 150 square feet (the current size restriction) but are below 200 square feet (proposed size restriction). As such, the proposed amendments adjust the size allowance for these types of structures.

- Townhouse (Single-Family Attached) Residential and Multi-Family Residential Uses: Staff proposes to create a new subpoint and table to regulate accessory structures for higher density residential uses. The table splits accessory structures into three separate categories: (i) single-story detached garages and carports; (ii) multiple-story detached parking garages; and (iii) other accessory structures (e.g., sheds). The allowance for both single-story and multi-story garage structures provides flexibility for both existing and proposed residential developments. They also could encourage denser off-street parking designs with a smaller overall footprint than a surface lot.
 - Single-Story Detached Garage or Carport Structures: The proposed height and setback regulations for a single-story detached garage or carport would mirror the existing height and setback regulations for accessory structures in Section 12-8-1.C. However, the amendments would not restrict the number of single-story detached garage and carport structures permitted on a single lot. Instead, it would restrict the collective area of all garage and carport structures that exceed 720 square feet in area, the Building Design Review standards in Section 12-3-11 of the Zoning Ordinance would apply.
 - Multiple-Story Detached Parking Garage Structures: Similar to single-story detached garages 0 and carports, multiple-story detached parking garages would (i) be limited by the collective area of all multiple-story detached parking garage structures-not to exceed 25 percent of the total lot area-instead of by a specific number of structures and (ii) would also be subject to the Building Design Review standards in Section 12-3-11 of the Zoning Ordinance if in excess of 720 square feet in size. However, multiple-story detached parking garage structures would have higher minimum setback requirements than other accessory structures given their greater height allowance of 45 feet (compared to the maximum height of 15 feet for all other accessory structures including single-story-story detached garages and carports). The greater height allowance is necessary to allow a parking garage structure with multiple stories but also appropriate given that the maximum height allowance for principal structures in the R-3 Townhouse Residential district is also 45 feet. Given this height allowance, the proposed amendments would require multiple-story detached parking garages to be located behind the front building line of the principal structure and a minimum of ten feet from all other property lines in order to provide a greater separation between this structure and property lines. The amendments also set a requirement that any such garage would have to be shorter than any principal structures served to retain the spirit of an "accessory" structure.
 - Other Accessory Structures: All other accessory structures—excluding detached garages and carports, so for example, sheds, pergolas, and gazebos—would follow the existing height, setback, and quantity standards in Section 12-8-1.C; the rules would be unchanged except to allow a maximum area of 200 square feet in size.
- Non-Residential Uses: Staff proposes to create a second new subpoint and table to regulate accessory structures for non-residential uses. The table setup is identical to the proposed table for the townhouse residential and multifamily residential uses with the three separate accessory structure categories— single-story-story detached garages and carports; multiple-story detached parking garages; and other accessory structures—but with two main differences. Section 12-8-1.C of the Zoning Ordinance currently has a separate section devoted to bulk regulations for detached garage and carports on lots in non-residential zoning districts, which allows for a larger detached garage or carport area based on whether the subject lot is less than 20,000 square feet in size or more. In addition, it requires said detached garage or carport structures to be setback a minimum of ten feet from all side and rear property lines. Staff intends to keep these distinctions given the varying sizes of non-residential lots throughout Des Plaines and the varying uses that operate or could operate at these locations.

- <u>Single-Story Detached Garage or Carport Structures:</u> The proposed bulk regulations for a single-story detached garage or carport would match the existing standards in Section 12-8-1.C regarding height (maximum of 15 feet), setbacks (minimum of 10 feet), and size (maximum of 920 square feet on lots 20,000 square feet or more in size and a maximum of 720 square feet on lots less than 20,000 square feet). A maximum of one single-story detached garage or carport structure would be permitted on a lot with a non-residential use to match the existing standards.
- Multiple-Story Detached Parking Garage Structures: The standards for multiple-story detached 0 parking garage structures would match the height (maximum 45 feet), setbacks (minimum 10 feet), and size (25 percent of the total lot area, regardless of the specific lot size)—as proposed for townhouse residential and multi-family residential uses—but with three distinctions. The first distinction deals directly with the location of the subject lot. When located on a lot that abuts a residential zoning lot, the height of multiple-story detached parking garage cannot exceed the maximum height of the abutting residential district. For example, this type of structure located on a lot next to a R-1 Single Family Residential district would be limited to 2¹/₂ stories or 35 feet in height, which is the maximum height allowance in that residential district. The second distinction relates to Building Design Review Standards in Section 12-3-11 of the Zoning Ordinance. While the proposed amendments require that all single-story detached garages or carports and multiple-story detached parking garages in excess of 720 square feet must comply with the Building Design Review Standards, this is not a requirement for these types of structures on lots with non-residential uses. The final distinction relates to the maximum quantity allowed. A maximum of one multiple-story detached parking garage structure would be permitted on a lot with a non-residential use to match the existing standards.
- <u>Other Accessory Structures:</u> All other accessory structures—excluding detached garages and carports—would follow the existing height, setback, and quantity standards in Section 12-8-1.C, but would be allowed to be up to 200 square feet in size.

Proposed Amendments

The full proposed amendments are attached and are summarized below:

Section 12-3-11, Building Design Review: Revise the list of activities that trigger the adherence to the Building Design standards to include certain accessory structures mentioned in Section 12-8-1.C.

Section 12-8-1, Accessory Uses and Structures: Split subsection C of this section into three portions with specific regulations in each:

- (i) Single-family Residential and Two-family Residential uses
 - Indent existing bulk regulation standards; and
 - Amend the maximum size allowance for accessory structures—excluding detached garages and carports—to 200 square feet.
- (ii) Townhouse Residential and Multifamily Residential
 - Create new table and specific bulk regulations for three different accessory structure types: (i) single-story detached garages and carports; (ii) multiple-story detached parking garages; and (iii) other accessory structures (e.g., sheds).
- (iii) Non-residential uses
 - Create new table and specific bulk regulations for three different accessory structure types: (i) single-story detached garages and carports; (ii) multiple-story detached parking garages; and (iii) other accessory structures (e.g., sheds).

Section 12-13-3, Definition of Terms: Amend the *Accessory Structure* definition to include structures with semi-open roofs (such as pergolas) and add additional items to the non-exhaustive list of accessory structure examples.

Standards for Zoning Text Amendment:

The following is a discussion of standards for zoning amendments from Section 12-3-7.E of the Zoning Ordinance. The PZB may recommend the City Council approve, approve with modifications, or deny the amendments. The PZB *may* adopt the following rationale for how the proposed amendments would satisfy the standards, or the Board may use its own.

1. Whether the proposed amendment is consistent with the goals, objectives, and policies of the comprehensive plan, as adopted and amended from time to time by the City Council;

These amendments help clarify and expand on the bulk regulations for accessory structures throughout the City by creating separate regulations for all use categories that are tailored to the scale and intention of those uses. They also provide additional options for existing and proposed developments in regard to storage, off-street parking, and overall site design—especially in denser areas of the City—which the Comprehensive Plan intends to capitalize on to achieve better and more sustainable developments.

PZB Modifications (if any):

2. Whether the proposed amendment is compatible with current conditions and the overall character of existing development;

The proposed amendments allow for further flexibility for various accessory structures regardless of the lot size, use, and location. The amendments focus on promoting denser parking structures to reduce impervious coverage on lots with either residential or non-residential uses. However, they also provide additional clarification on the specific standards for accessory structures based on their type and use, which is something that the current zoning ordinance does not fully identify. The amendments are tailored to minimize impacts of storage and parking structures on neighboring properties regardless of their location.

PZB Modifications (if any):

3. Whether the proposed amendment is appropriate considering the adequacy of public facilities and services available to this subject property;

The proposed amendments would allow for additional options for both storage and parking on properties throughout the City that may require additional public facilities and services for an individual site based on their use and design. However, these amendments would still require site plan review and adherence to applicable municipal codes to ensure that any improvements are compliant and are adequately serviced.

PZB Modifications (if any):

4. Whether the proposed amendment will have an adverse effect on the value of properties throughout the jurisdiction; and

It is not anticipated that the proposed amendments will have any adverse effect on surrounding properties. Instead, the flexibility provided with these amendments encourages reinvestment in properties and can lead to new uses or improvements to existing uses that benefits the City and its residents.

PZB Modifications (if any):		

5. Whether the proposed amendment reflects responsible standards for development and growth.

The proposed text amendments facilitate a path towards responsible standards for development and growth for all uses and properties by establishing a clear and streamlined permitting path for additional parking and storage options that promote better design of both residential and non-residential developments.

PZB Modifications (if any):

PZB Procedure and Recommendation: Under Section 12-3-7 of the Zoning Ordinance, the PZB has the authority to *recommend* that the City Council approve, approve with modifications, or deny the above-mentioned amendments. The Board should clearly state any modifications so that its recommended language can be incorporated in the approving ordinance passed on to the Council, which has final authority on the proposal.

Attachments:

Attachment 1: Accessory Structure Research¹

Attachment 2: Photos of Detached Garages Serving Multifamily Development (The Parker, Park Ridge, IL)² Attachment 3: Proposed Amendments

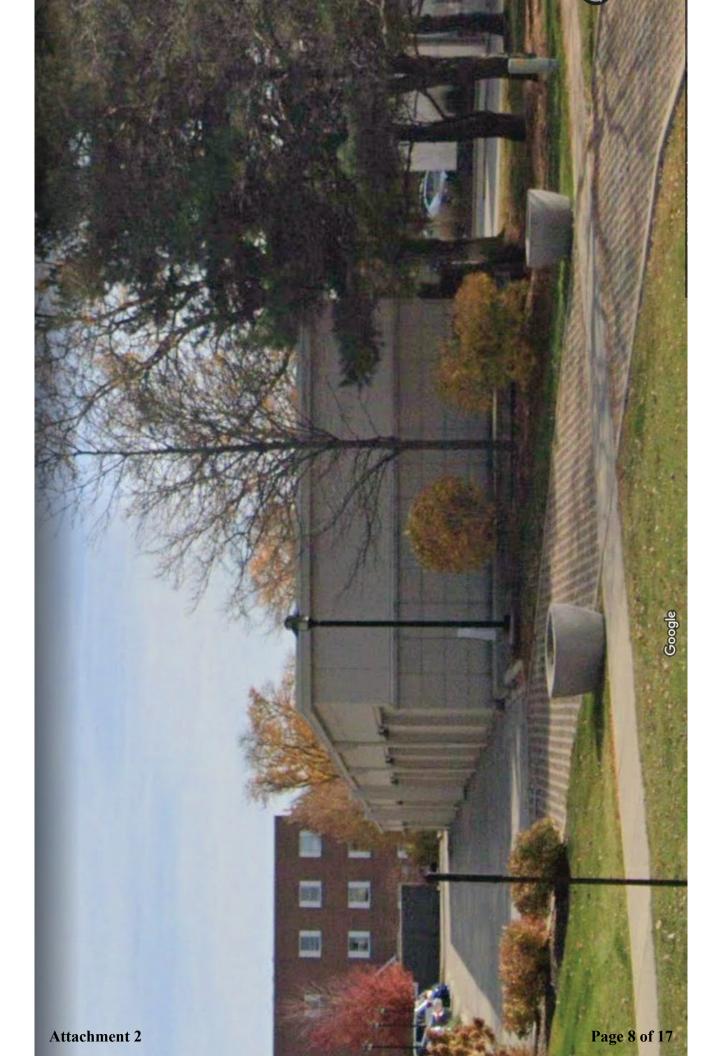
¹ Source: Home Depot and Lowes websites, obtained July 18, 2023.

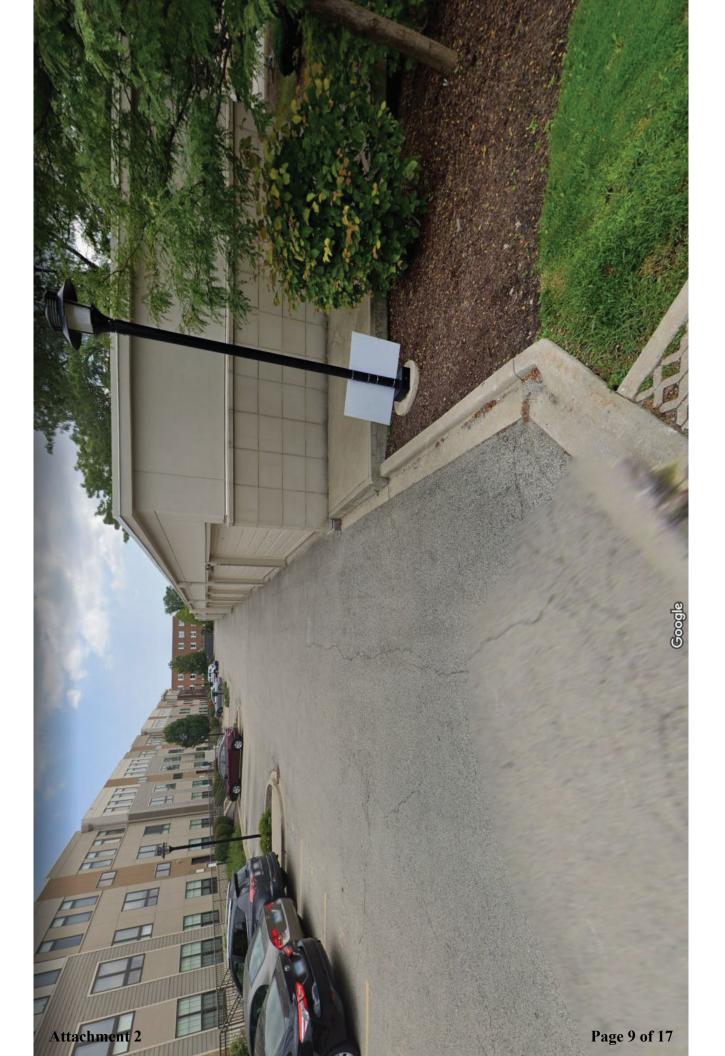
² Source: Google Streetview, obtained July 21, 2023.

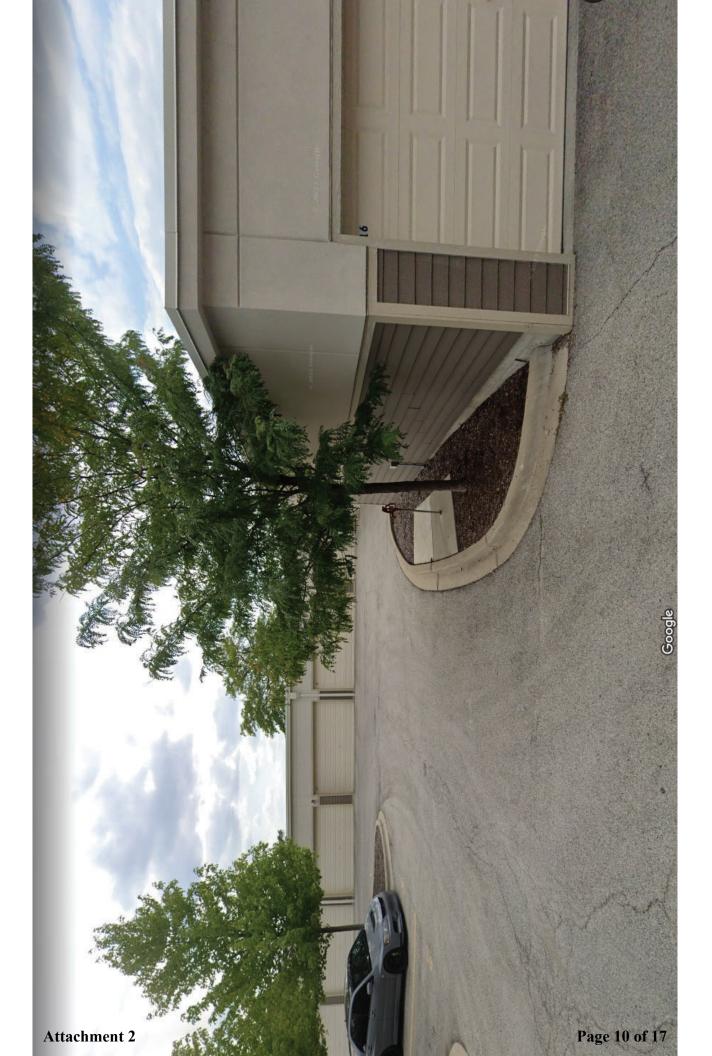
Data Source: Home Depot and Lowes websites, data collected on July 18th, 2023

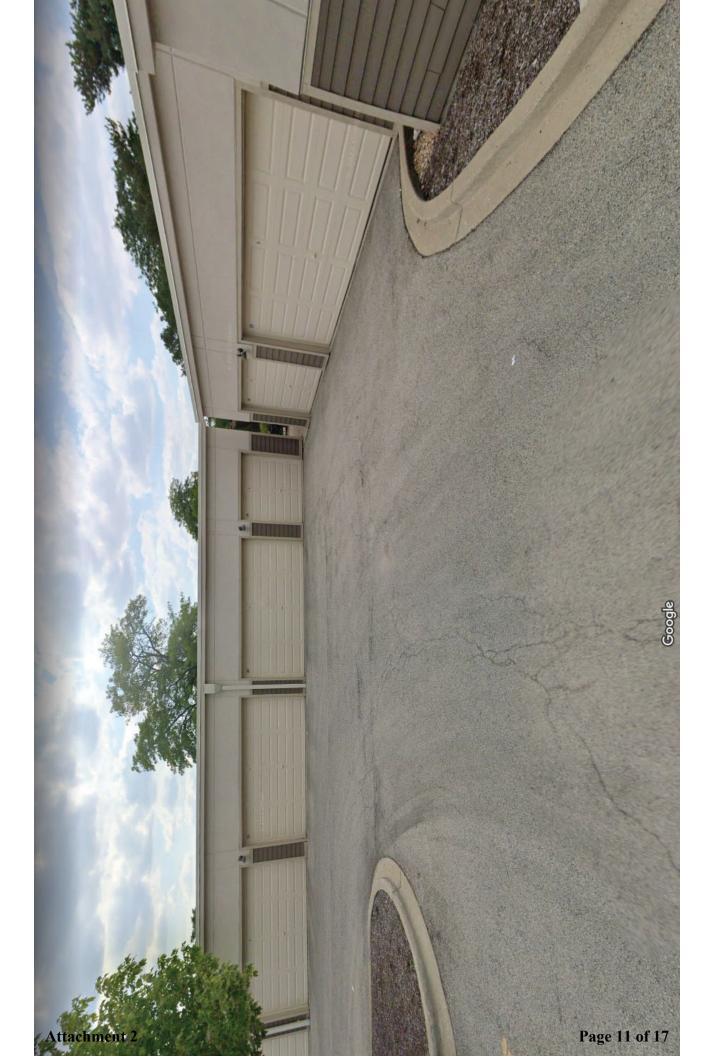
Analysis of Average Dimensions of Sheds, Pergolas, and Gazebos

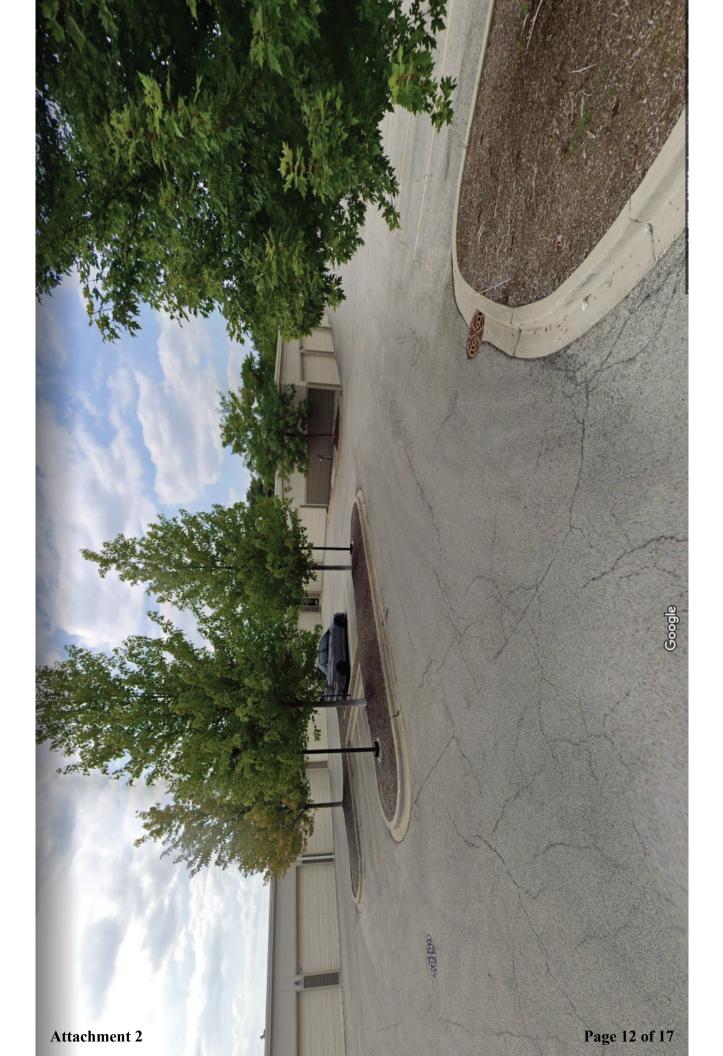
	Sheds	sb			Perg	Pergolas			Gai	Gazebos	
	Width (ft)	Depth (ft)	Area (sf)		Width (ft)	Depth (ft)	Area (sf)		Width (ft)	Depth (ft)	Area (sf)
	11.1	12.9	138.9	Average:	11.7	13.6	159.2	Average:	12.2	11.0	136.0
	10	∞	120	Mode:	10	12	144	Mode:	12	10	120
	7 to 20	7 to 24	49 to 288	Range:	10 to 18	7.5 to 20	75 to 324	Range:	7.97 to 20	4.99 to 13	39.77 to 240
#	Width (ft)	Depth (ft)	Area (sf)	Sample #	Width (ft)	Depth (ft)	Area (sf)	Sample #	Width (ft)	Depth (ft)	Area (sf)
	15.0	8.0	120	1	16.0	12.0	192	1	10.0	10.0	100
	10.0	10.0	100	2	10.0	14.0	140	2	11.0	10.0	110
	10.0	12.0	120	ŝ	14.0	12.0	168	ſ	11.0	13.0	143
	20.0	8.0	160	4	10.0	10.0	100	4	15.0	13.0	195
	15.0	8.0	120	2	12.0	12.0	144	ß	20.0	12.0	240
	10.0	16.0	160	9	10.0	13.0	130	9	12.0	10.0	120
	12.0	20.0	240	7	13.0	8.5	110.5	7	12.0	12.0	144
	8.0	20.0	160	∞	18.0	18.0	324	∞	16.0	12.0	192
	12.0	16.0	192	6	11.0	13.0	143	6	13.0	10.0	130
	10.0	12.0	120	10	10.0	20.0	200	10	10.0	12.0	120
	10.0	8.0	80	11	12.0	12.0	144	11	10.0	10.0	100
	8.0	12.0	96	12	10.0	14.0	140	12	10.8	12.8	138.24
	7.0	7.0	49	13	10.0	13.0	130	13	11.3	11.3	127.69
	8.0	16.0	128	14	12.0	12.0	144	14	8.0	5.0	39.7703
	8.0	14.0	112	15	10.0	7.5	75	15	12.0	10.0	120
	12.0	10.0	120	16	10.0	20.0	200	16	11.0	13.0	143
	10.0	10.0	100	17	12.0	16.0	192	17	13.0	10.0	130
	12.0	12.0	144	18	10.0	10.0	100	18	12.0	12.0	144
	12.0	24.0	288	19	12.0	14.0	168	19	12.2	9.5	115.9
	12.0	14.0	168	20	12.0	20.0	240	20	14.0	12.0	168

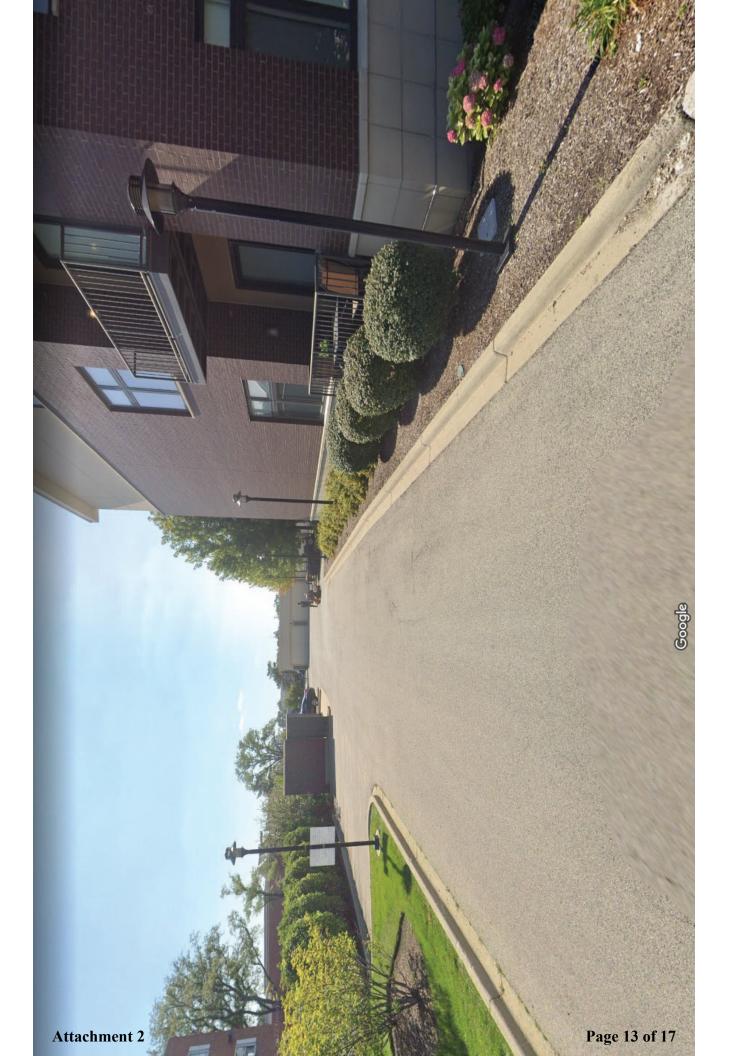












Accessory Structures: Proposed Amendments

Additions are **bold**, **double-underlined**. Deletions are struck through.

"Section 12-3-11: Building Design Rules

C. Applicability: Building design review plans that contain the information set forth in section <u>12-14-9</u>, "Minimum Submission Requirements For Building Design Review", of this title, and any other information that may be requested by the Zoning Administrator, shall be submitted to the Department of Community and Economic Development with any development review application for the following construction or alteration activities:

 New construction of a principal structure <u>or certain accessory structures pursuant to</u> <u>Section 12-8-1</u>;

* * */

"Section 12-8-1: Accessory Uses and Structures

- * * *
- C. The bulk standards for accessory structures shall be as set forth below:
 - 1. Single-family detached and two-family dwelling uses:
 - a) The maximum height of an accessory structure shall be 15 feet.
 - **b)** The minimum front yard setback for an accessory structure shall be the front building line of the principal structure.
 - <u>c)</u> The minimum side and rear yard setbacks for an accessory structure shall be five feet. However, a detached accessory garage or carport for a residential use in the R-1 and R-2 Residential Districts may be located on the rear lot line where the rear lot line abuts an alley.
 - **<u>d</u>**) The maximum number of accessory structures permitted for any singlefamily or two-family dwelling use shall be two; however, there shall be no more than one garage or carport (attached or detached) per residential dwelling.
 - <u>e)</u> The maximum area of a detached garage or carport shall be 720 square feet or less. The maximum area of an accessory structure other than a detached garage <u>or carport</u> shall be one hundred fifty (150) <u>200</u> square feet or less.

Additions are **<u>bold</u>**, **double-underlined**</u>. Deletions are struck through.

<u>2.</u>	Townhouse (single-fami	ly attached) and multi	ple-family	residential uses:
				-	

· · · · · · · · · · · · · · · · · · ·		1	
	Single-Story	Multiple-Story	Other Accessory
<u> </u>	Detached Garages	Detached Parking	<u>Structures</u>
	and Carports	<u>Garages</u>	
<u>Maximum height</u>	<u>15 feet</u>	<u>45 feet; provided,</u>	<u>15 feet</u>
		<u>however, the</u>	
		<u>height must be less</u>	
		<u>than all principal</u>	
		structures served	
<u>Minimum front</u>	<u>The front building</u>	<u>The front building</u>	<u>The front building</u>
<u>yard setback</u>	line of the principal	line of the principal	line of the principal
	<u>structure.</u>	<u>structure.</u>	<u>structure.</u>
<u>Minimum side</u>	<u>5 feet</u>	<u>10 feet</u>	<u>5 feet</u>
<u>yard setback</u>			
<u>Minimum rear</u>	<u>5 feet</u>	<u>10 feet</u>	<u>5 feet</u>
<u>yard setback</u>			
Minimum corner	<u>10 feet</u>	<u>10 feet</u>	<u>10 feet</u>
side yard setback			
Maximum	N/A	N/A	Two
quantity			
<u> </u>			
Maximum size	25% of the total lot	25% of the total lot	200 square feet
	area; provided,	area; provided,	
	<u>however, if greater</u>	<u>however, if greater</u>	
	than 720 square	than 720 square	
	feet, Building	feet, Building	
	Design Review	Design Review	
	regulations will	regulations will	
	<u>apply</u>	apply	

Additions are **<u>bold</u>**, **double-underlined**</u>. Deletions are struck through.

3. Non-residential uses on non-residential zoning lots

	Single-Story	Multiple-Story	Other Accessory
<u>Type</u>	Detached Garages	Detached Parking	<u>Structures</u>
<u>- 192</u>	and Carports	Garages	<u>structures</u>
		Guruges	
Maximum height	<u>15 feet</u>	45 feet; provided,	15 feet
······································		however, where	<u></u>
		the zoning lot	
		abuts a residential	
		zoning lot, the	
		structure may not	
		exceed the	
		maximum height	
		of the abutting	
		residential district	
Minimum front	The front building	The front building	The front building
<u>vard setback</u>	<u>line of the</u>	<u>line of the</u>	<u>line of the</u>
	<u>principal</u>	<u>principal</u>	<u>principal</u>
	<u>structure.</u>	<u>structure.</u>	<u>structure.</u>
<u>Minimum side</u>	<u>10 feet</u>	<u>10 feet</u>	<u>5 feet</u>
<u>yard setback</u>			
<u>Minimum rear</u>	<u>10 feet</u>	<u>10 feet</u>	<u>5 feet</u>
<u>yard setback</u>			
<u>Maximum</u>	<u>One</u>	<u>One</u>	<u>Two</u>
<u>quantity</u>			
<u>Maximum size</u>	720 square feet	25% of the total	200 square feet
(lots less than 20,000		<u>lot area</u>	
<u>square feet in area)</u>			
Maximum size	960 square feet	25% of the total	200 square feet
(lots 20,000 square	<u>Job square reel</u>	lot area	200 Square reel
feet or more in area)			
-		-	

Additions are **<u>bold</u>**, **double-underlined**</u>. Deletions are struck through.

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"Section 12-13-3: Definition of Terms

*

ACCESSORY STRUCTURE: A structure which is detached from a principal structure and is located on the same zoning lot and incidental and subordinate to the principal structure. Accessory structures are characterized by having a solid <u>or semi-open</u> roof, and include, but are not limited to, detached garages, <u>carports, pergolas</u>, sheds, greenhouses, and gazebos. Accessory structures may not exceed the height of the principal structure.

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* * * *″

Additions are bold, double-underlined. Deletions are struck through.

Attachment 3



1420 Miner Street Des Plaines, IL 60016 P: 847.391.5380 desplaines.org

	MEMORANDUM		
Date:	July 21, 2023	3	
То:	Planning and	Zoning Board (PZB)	
From:	Samantha Re	dman, Planner Scre	
Cc:	John T. Carli	sle, AICP, Director of Community and Economic Development $\mathcal{P}^{\mathcal{P}}$	
Subject:		Amendment from C-3 to R-4 at Approximately 919 and 921 Graceland Avenue tour Saws Parking Lot)	
PIN:		09-20-203-006-0000	
Petitioner:		Luz and Associates #1, LLC, 2030 West Wabansia Ave., Chicago, IL 60611	
Owner/Property Control:		Contour Saws, Inc., 100 Lakeview Parkway, Ste. 100, Vernon Hills, IL 60061	
Case Number:		#23-040-MAP	
Ward Number:		#2, Alderman Colt Moylan	
Existing Zoning: C-3, General Con		C-3, General Commercial	
Surrounding Zoning:		North: R-4, Central Core Residential South: Railroad and C-3, General Commercial East: C-3, General Commercial West: M-2, General Manufacturing	
Surrounding Land Uses:		North: Multi-family residential building South: Railroad and commercial office buildings East: Commercial buildings West: Former Contour Saws manufacturing building	
Street Classification: Grad		Graceland Avenue is classified as a minor arterial road.	
Comprehens	sive Plan:	Industrial is the recommended use for this property.	
Property/Zo	Property/Zoning History: The property was formerly the parking lot associated with the Contour manufacturing facility located to the northwest. The Contour Saws built was built in the 1960s and operated in this location until 2020. Historic indicate the site has been developed as a parking lot since the early 196		

the use has never changed.¹ Between 1938 and 1960, zoning for the property changed from commercial to light industrial and back to the current commercial zoning. However, no commercial use has ever been associated with this property. The property is currently owned by Contour Saws and is vacant.

Project Description: The petitioner is Luz and Associates, which is the contract purchaser of the subject property, along with the main Contour Saws building property on the other side of Graceland. They are proposing a zoning map amendment from C-3, General Commercial to R-4, Central Core Residential. The amendment would allow for a contemplated multifamily residential building at this site, one of two that are proposed for the former Contour Saws facility.

Zoning Map Amendment Overview

The purpose of a zoning map amendment is to determine whether an existing zoning district is suitable for a location and, if not, which zoning district would be more suitable, given the context of the neighborhood, city goals, and local, state, and national development trends.

Although a specific project can be considered alongside any zoning application, zoning change deliberation often looks at a property at a larger scale within the neighborhood and city. However, a Site Plan Review, as required by Section 12-3-2, was performed for the conceptual project at this site. The Site Plan Review contributes to the overall assessment of a zoning map amendment, demonstrating the feasibility of a specific project with this zoning. Refer to the Site Plan Review section of this report and associated attachments.

C-3 Zoning and Suitability of the Site for Proposed R-4 Zoning

The C-3, General Commercial zoning district is intended to accommodate a diversity of businesses. Out of all of the commercial districts, C-3 permits the largest number of different uses, allowing for 37 uses permitted by right (meaning no zoning entitlement process) and 28 conditional uses. A broad variety of uses are allowed, including retail, office, restaurants, and other commercial services.

However, this site has never been developed with a commercial use, despite having the most permissive commercial zoning for decades. Even with the closure of Contour Saws in 2020, the site remains an unoccupied, surface parking lot. The Comprehensive Plan envisions this area for manufacturing uses; however, the plan was written in 2019 prior to the unanticipated closure of Contour Saws in 2020.

Considering this site has never successfully been developed into a commercial use, the zoning map amendment process allows the City to determine if another type of use would be more suitable. This site is uniquely situated near many amenities and services necessary to support residential development. Few available properties exist in Des Plaines with the transit, recreational, and commercial opportunities available within walking distance, making this site an ideal location for additional residential versus commercial or manufacturing development. Within a half-mile of the property (an approximate 8-15 minute

¹ Historic Aerials, 1961 Aerial, historicaerials.com

walk for the average person²), the following services are available. Refer to Amenities and Services Map attachment for further details.

Service	
Transit	Des Plaines Metra Station platform; Pace
	Bus Stops for Lines 226, 230, and 250, and PULSE
Downtown Commercial Area	Restaurants, retail/personal services
	including dentist, optometrist, urgent care, private gym, and salons
Schools (private and public)	Central Elementary School, Willows
	Academy, Little Bulgarian School,
	Islamic City Center of Des Plaines
	Academy
Parks	Centennial Park, Central Park, Paroubeck
	Park, Potowatomie Park
Public Buildings	Library, City Hall

A change to the zoning would be necessary to allow residential uses on this property. No new residential uses are permitted within the C-3 zoning district in this location. An analysis of the various options for residential zoning districts is necessary to determine what is best suited for this site. Below is a table of residential zoning districts and the residential uses permitted within them.

Residential Districts Use Matrix				
Use	<i>R-1</i>	R-2	R-3	<i>R-4</i>
Single Family Detached	Р	C*	C*	C*
Townhouse	Not	Not	Р	Р
	permitted	permitted		
Two-family (duplex)	Not	Р	Not	Not
	permitted		permitted	permitted
Multi-Family	Not	Not	D	р
	permitted	permitted	ſ	ſ

*Note: Only applies to single-family detached dwellings that were lawfully constructed prior to August 17, 2020 and are located in a zoning district other than R-1.

The R-1 and R-2 zoning districts would restrict the density of residential units at the property, limiting the development potential. As the name suggests, the R-1, Single Family Residential district limits the number of dwelling units to one dwelling unit per parcel. The R-2, Two-Family Residential district similarly limits the number of dwellings to two units per parcel. To allow for more than one or two residences on this 1.23-acre property, the property would need to be subdivided. If the property were subdivided to meet the R-1 or R-2 bulk standards, it is unlikely the property could produce more than five residential units. The property is also too small to allow for a Planned Unit Development (PUD), which would allow for smaller lots but requires a minimum parcel size of 2 acres (Section 12-3-5.B.3).

² Bohannon, R. W. (1997). Comfortable and maximum walking speeds of adults aged 20-79 years: reference values and determinants. *Age and Ageing*, page 17.

The R-3, Townhouse Residential and R-4, Central Core Residential districts provide the option to increase the number of units on this parcel without requiring subdivision. Comparatively, a townhouse or multi-family development would supply a greater number of units in the same amount of space, creating a more efficient and economical option for this location. The main difference between the R-3 and R-4 districts are the bulk standards. The table below provides a comparison.

R-3 Versus R-4 Bulk Standards		
Bulk Controls	<i>R-3</i>	<i>R-4</i>
Maximum height	45 ft	80 ft
Minimum front yard	25 ft	12 ft
Minimum side yard	Buildings 35 ft. and under: 5 ft. Over 35 ft.: 10 ft.	Buildings 35 ft. and under: 5 ft. Over 35 ft.: 10 ft.
Minimum rear yard	Buildings 35 ft. and under: 25 ft. or 20% of lot depth, whichever is less Buildings over 35 ft.: 30 ft.	Buildings 40 ft. and under: 25 ft. or 20% of lot depth, whichever is less Buildings over 40 ft.: 25 ft., plus 2 ft. for every 10 ft. over 40 ft.
Minimum lot width	45 ft.	45 ft.
Minimum lot area	2800 sq. ft. per dwelling unit	40,700 sq. ft (.93 acres). ¹

1. The minimum lot area for a zoning lot in the "R-4 Central Core Residential District" shall be either 10,000 square feet or shall be determined by the total sum of the required minimum lot area of each dwelling unit on the zoning lot in accordance with the table in Section 12-7-2.J.

R-3 and R-4 zoning districts both allow for multifamily residential development. However, R-3 requires 2,800 square feet of space per dwelling unit, allowing a maximum of 19 units on this 53,731-square-foot (1.23-acre) property. Compared to R-3, the R-4 district allows for a significantly larger number of residential units, requiring smaller lot areas per unit and allowing for a taller building.

Demographic Trends and Accommodating an Aging Population

The existing housing stock throughout the city is predominantly single-family residential and the Comprehensive Plan states it is a goal to maintain this stock of high-quality single family residential property within the city. However, the detached single family housing type is an increasingly unaffordable product for many existing and future residents. In comparison, townhouses and multi-family provide additional housing stock at a more financially attainable scale due to the smaller size and reduced maintenance cost.

An important goal of 2019 Comprehensive Plan is providing avenues to allow residents to age-in-place and improve accessibility. As of 2015, the percentage of Des Plaines residents 50 or older was 40.2%, compared to the regional average of 31.4%.³ According to the U.S. Census Bureau, this percentage is likely to grow, with one in five Americans at retirement age by 2030.⁴ Households approaching retirement are frequently interested in downsizing to limit maintenance costs and reduce monthly housing costs to meet limitations of fixed incomes. Supplying a diverse housing stock in this area provides the option for seniors to continue living within the city. A residential development in this location would be close enough to facilities and services for an aging population to independently complete activities of daily living, with many amenities available within walking or transit distance.

In terms of accessibility, it is relevant to note that multifamily housing developments, either private or public, with four or more units are required to meet accessibility requirements outlined in the Fair Housing Act.⁵ This includes provisions requiring certain units to have accessible access, routes, and usable private and common spaces for individuals with disabilities. Note buildings separated by a firewall, such as townhouses, are not subject to these accessibility requirements.⁶ Additionally, the International Building Code (IBC) requires buildings of a certain size to have at least one elevator and it must be able to accommodate an ambulance stretcher (IBC 2015 Section 3002.4). Overall, multi-family residential developments over a certain size versus single-family detached or attached residences provide a greater likelihood of providing the accessibility needs of an aging population and provide additional housing opportunities for individuals with disabilities regardless of age.

With these considerations regarding the location of the property near other R-4 zoned, multi-family properties, the proximity to numerous private and public services, and the goals of the Comprehensive Plan focused on providing diversity of housing stock and providing accessible options for residents, senior or otherwise, the R-4 zoning district is a suitable fit for this property.

³ Des Plaines 2019 Comprehensive Plan, Page 32

https://www.desplaines.org/home/showpublisheddocument/162/637612522934400000

⁴ U.S. Census Bureau (2018) Older People Projected to Outnumber Children for First Time in U.S. History,

https://www.census.gov/newsroom/press-releases/2018/cb18-41-population-projections.html

⁵ U.S. Department of Housing and Urban Development, Accessibility Requirements for Buildings

https://www.hud.gov/program offices/fair housing equal opp/disabilities/accessibilityR

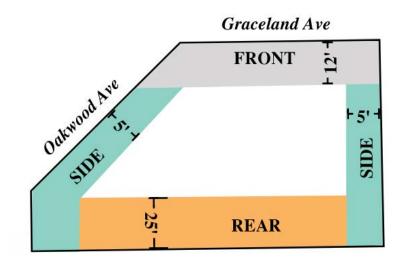
⁶ U.S. Department of Housing and Urban Development, *Fair Housing Act Design Manual*, Page 10 https://www.huduser.gov/portal//Publications/PDF/FAIRHOUSING/fairfull.pdf

Site Plan Review

Proposed Project Overview

The petitioner proposes a four story, 56-unit multi-family residential development and associated parking lot and private park space. Note the proposed development is one of two for the former Contour Saws properties; the site to the north will be reviewed and considered as a separate application.

This type of development is a permitted use in the proposed R-4 Central Core Residential district if it follows all bulk regulations and other standards. The below diagram illustrates staff's interpretation of where the required yards are located for this property, as noted in Section 12-7-2 and defined in Section 12-13-3.



The table on the following page compares the R-4 district regulations with the proposed development on the subject property.

R-4 -Central Core Residential District Bulk Standards		
Bulk Controls	Required	Proposed
Maximum height	80 ft. ¹	48 ft.
Minimum front yard	12 ft.	15 ft.
Minimum side yard	5 ft.	5 ft.
Minimum rear yard	25 ft.	25 ft. ¹
Minimum lot width	50 ft.	193.86 ft.
Minimum lot area	40,700 sq. ft. ² (refer to Footnote 2 and associated table below)	53,731.42 sq. ft.

Note:

1. Off-street parking spaces are permitted to be located in any required yard, including the rear yard, per Section 12-9-6.C.

2. The minimum lot area for a zoning lot in the "R-4 Central Core Residential District" shall be either 10,000 square feet or shall be determined by the total sum of the required minimum lot area of each dwelling unit on the zoning lot in accordance with the following table, whichever is greater:

Number Of Bedrooms	Minimum Lot Area (Square Feet)
Efficiency dwelling unit	600
1 bedroom	700 sq. ft. minimum required lot area * 41 units proposed = 28,700 sq. ft. of lot area required
2 bedrooms	800 sq. ft. minimum required lot area * 15 units = 12,000 sq. ft. of lot area required
Total Required Lot Area:	40,700 sq ft

Site Plan Review Standards

Pursuant to Section 12-3-7.D.2 of the Zoning Ordinance, a Site Plan Review is required for all map amendment requests to assess how the request meets the characteristics identified in Section 12-3-2, which are listed below along with staff's assessment of each in relation to the current Site Plan provided by the petitioner, located in the Site Plan attachment.

Note many of the provided plans include an entrance/exit from the alley. However, the developer has chosen to remove this proposed driveway in favor of one entrance entering and exiting. The Site Plan attachment provides the most up to date plan; this plan was used to complete the Site Plan Review below. All other updated plans, including an updated traffic study, will be provided with any future Planning and Zoning Board and City Council packets and will be uploaded onto the <u>desplaines.org/contourplace</u> when available.

Site Plan Review		
Item	Analysis (based on Proposal)	
The arrangement of structures on the site	• Places the building along the street frontage rather than the parking lot. By placing a building along a street rather than the parking lot, the design presents better cohesion with the buildings surrounding it by placing the building at approximately the same distance from the property line as adjacent multi-family buildings.	
	• A more efficient design would involve the placement of parking in a parking garage underneath the building, rather than surface parking. However, it is unknown the expense and the impact on economic viability for this project if this site design change were required. Taking into consideration the current use (vacant surface parking lot), the proposed development provides a substantially more efficient use of the property.	
The arrangement of open space and landscape improvements	• Landscaping is provided around the building in excess of requirements along the front yard and perimeter parking lot landscaping meets zoning requirements. In addition, a private park space is proposed, as noted on the plans. Refer to Landscape Plan attachment.	
	• Staff advises the movement of the shade tree shown on the landscape plan from the corner between Oakwood Avenue and the alley to improve visibility for vehicles and pedestrians entering and exiting the driveway. The tree will need to be located elsewhere on the property and staff will confirm the landscape plan includes the required amount of parking lot landscaping at time of building permit.	

The adequacy of the proposed circulation system on the site	• Curb cut closed onto Graceland, pushing traffic to Oakwood Ave. and the alley. The traffic study provided with this application demonstrates that proposed traffic will not have a significant impact on the area roadways. It is important to note the existing parking lot includes over one hundred parking spaces and the Contour Saws facility likely generated a greater amount of traffic for employees and deliveries than proposed with this residential development. <i>The Board may seek to</i> <i>ask the petitioner if they anticipate any significant</i> <i>changes to traffic with the updated site plan</i> (<i>eliminating the entrance/exit of the parking lot</i> <i>into the alley</i>) <i>not reflected in the traffic impact</i> <i>study</i> .
	• The closure of a curb cut along Graceland Ave and replacing with a parkway and walkway improves safety and comfort of pedestrians along this side of Graceland. The proximity of the building to the street also provides better surveillance within the neighborhood, with windows facing the residential neighborhood and providing additional "eyes on the street."
	• A loading/unloading zone within the development eliminates traffic on the adjacent streets and alley for deliveries, dumpster pickup, and ride sharing for proposed future residents and visitors.
	• Parking meets the off-street parking requirements of Section 12-9-7, providing sixty-five spaces which is the minimum required amount. It is anticipated, as discussed in the petitioner's response to standards and the provided traffic study, that the proximity of the site to numerous transit options and a bike route along Thacker St, will reduce dependence on automobiles for this project.
The location, design, and screening of proposed off-street parking areas	• Perimeter landscaping, including required shrubs and shade trees, are provided around the proposed parking lot. A private park blocks some view of the parking lot from Oakwood Ave.
	• Site is situated in such a way that the parking lot has minimum visibility from Graceland Avenue and Oakwood Avenue and minimal conflict with pedestrians along public walkways.

The adequacy of the proposed landscaping design on the site	 All required landscaping in terms of perimeter and interior parking lot landscaping and landscaping of required yards is fulfilled. Private park space provided in the southwestern area of the property with accessible walking path to the building and from Oakwood Ave.
The design, location, and installation of proposed site illumination	• Photometric plan demonstrates conformance with Section 12-12-10, with no more than 0.2 foot candles spilling over the property line in any location, well within the limits of the zoning ordinance.
	• The parking lot is properly illuminated, with at least 0.1 footcandles in any parking area, meeting requirements of Section 12-9-6.G.
The correlation of the proposed site plan with adopted land use policies, goals, and objectives of the comp. plan	 Does not fit the manufacturing use illustrated by the Comprehensive Plan; however, the 2019 plan was written on the assumption that the Contour Saw facility will continue operating. The proposed plan supports the following goals (refer to "Demographic Trends and Accommodating an Aging Population" and "C-3 Zoning and Suitability of the Site for Proposed R-4 Zoning" sections of this report for further details): Goal 4.1. Ensure the City has several housing options to fit diverse needs. Goal 4.3 Provide new housing at different price points Goal 4.5 – Plan for and identify policies and tools that ensure accessibility
	• In addition to housing goals, the proposed development meets economic goals of the city by providing additional property tax revenue compared to the existing use of the site. Refer to the Tax Projections attachment.

Summary of Public Outreach

In an effort to improve community engagement and transparency surrounding new, large developments within Des Plaines, the City provided numerous opportunities for residents to review the proposal and provide input. To provide regular project updates, a webpage on the city website was created: <u>desplaines.org/contourplace</u>. On June 6, 2023, the Planning and Zoning Board hosted a public workshop to provide the developer, board, and the public an opportunity to review plans and provide input into the proposed development at this location and the former Contour Saws facility to the north of this property. After this meeting, the project webpage was updated to include a public input form to continue gathering community comments on the plans. Refer to Public Comment attachment for all public comments.

Standards for Zoning Map Amendment:

The following is a discussion of standards for zoning map amendments from Section 12-3-7.E of the Zoning Ordinance. Rationale for how well the proposal addresses the standards is provided below and in the attached petitioner responses to standards. The Board may use the provided responses as written as its rationale, modify, or adopt its own.

1. Whether the proposed amendment is consistent with the goals, objectives, and policies of the comprehensive plan, as adopted and amended from time to time by the City Council;

The Comprehensive Plan was written in 2019 when the Contour Saws facility was still operating. Due to the manufacturing facility's longstanding operations in Des Plaines, the Comprehensive Plan did not envision this area to be used for anything else. However, the proposed amendment and development would meet several goals from the Housing chapter of the Comprehensive Plan, including: Goal 4.1. Ensure the City has several housing options to fit diverse needs; Goal 4.3 Provide new housing at different price points; and Goal 4.5 Plan for and identify policies and tools that ensure accessibility. Refer to "Demographic Trends and Accommodating an Aging Population" and "C-3 Zoning and Suitability of the Site for Proposed R-4 Zoning" sections of this report for further details. In addition to housing goals, the proposed development meets economic goals of the city by providing additional property tax revenue compared to the existing use of the site. Refer to the Tax Projections attachment.

PZB Modifications (if any):

2. Whether the proposed amendment is compatible with current conditions and the overall character of existing development;

The subject property is adjacent to R-4 zoning to the north and is close to several similar multifamily developments. The area is in close proximity to numerous services within walking, biking or transit distance, Refer to Amenities and Services Map attachment. Any proposed development would need to meet all building material and design requirements outlined in Section 12-3-11 – Building Design Review, including requirements for face brick which will be similar in design to the adjacent multi-family residential buildings in this neighborhood.

PZB Modifications (if any):

3. Whether the proposed amendment is appropriate considering the adequacy of public facilities and services available to this subject property;

An engineering and utility plan was prepared with this application. Based on the provided site plan, City engineering staff did not indicate any concerns with the adequacy of public facilities or services being available to meet the needs of this proposed development.

A traffic impact study was provided with this application to assess impacts of the proposed development (Refer to Traffic Study attachment). The study indicated the traffic generated by this use would not create a significant impact on the surrounding street network. *The Board may seek to ask the petitioner if they anticipate any significant changes to traffic with the updated site plan (eliminating the entrance/exit of the parking lot into the alley) not reflected in the traffic impact study.*

It is important to note the previous use of this property was an employee parking lot with over one hundred parking spaces, while the proposed residential development provides 65 parking spaces as well as a loading and unloading zone. At minimum, this development brings less potential for vehicles to be travelling in and out of the site at peak hours versus one hundred employees of a manufacturing facility. Parking meets the off-street parking requirements of Section 12-9-7, providing 65 spaces which is in excess of the minimum required amount.

PZB Modifications (if any):

4. Whether the proposed amendment will have an adverse effect on the value of properties throughout the jurisdiction; and

The proposed map amendment would allow for residential uses on a property that has been zoned commercial for decades and, throughout its history, existed as a surface parking lot for employees of a now closed manufacturing facility. A building that provides additional residential options for the area and required to follow the Building Design Standards outlined in the Zoning Ordinance creates a more appealing urban design for the neighborhood versus an unoccupied surface parking lot.

PZB Modifications (if any):

5. Whether the proposed amendment reflects responsible standards for development and growth.

The current use of this property is a surface parking lot for a manufacturing use that is unlikely to be filled with another similar manufacturing business. Despite the commercial zoning, the property has remained unimproved for several years, and remains vacant and in disrepair. Providing a residential use for the property, particularly a use that capitalizes on the close proximity to downtown Des Plaines and the various amenities associated with the area, would present a more efficient and useful way to use this property. As discussed in the Demographic Trends and Accommodating an Aging Population section, the City needs to promote opportunities that increase housing stock for a diversity of populations in the area, both in the short term and long term. Amending the zoning district for this property, regardless of the proposed project, provides an additional opportunity to construct a multifamily development in an area with similar residences and with the necessary services to support this type of use.

PZB Modifications (if any):

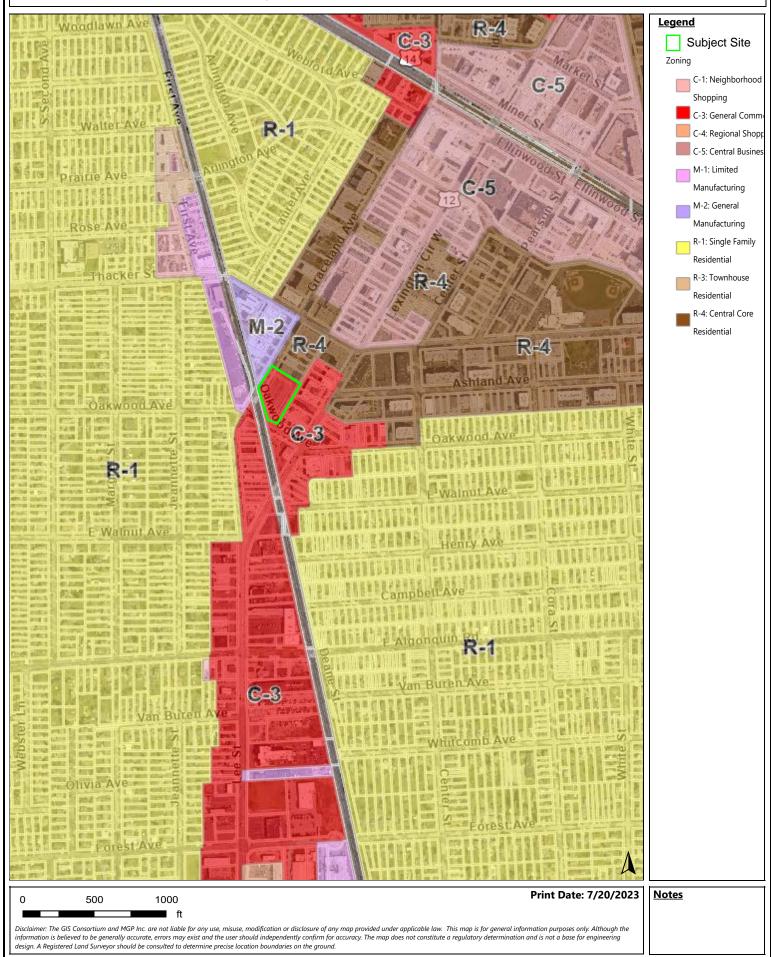
PZB Procedure and Recommended Conditions: Under Section 12-3-7.D (Procedure for Review and Decision for Amendments) of the Zoning Ordinance, the PZB has the authority to *recommend* that the City Council approve, approve subject to conditions, or deny the above-mentioned zoning map amendment. City Council has final authority on the proposal.

Consideration of the request should be based on a review of the information presented by the applicant and the findings made above, as specified in Section 12-3-7.E (Standards for Amendments) of the Zoning Ordinance. If the PZB recommends and City Council ultimately approves the request, staff recommends the following conditions.

Attachments:

- Attachment 1: Location Map
- Attachment 2: Site and Context Photos
- Attachment 3: Project Narrative and Responses to Standards
- Attachment 4: Amenities and Services Map
- Attachment 5: Plat of Survey
- Attachment 6: Site Plan
- Attachment 7: Architectural Plans and Site Plan
- Attachment 8: Landscape Plans
- Attachment 9: Engineering Plans
- Attachment 10: Photometric Plan
- Attachment 11: Traffic Impact Study
- Attachment 12: Property Tax Projections
- Attachment 13: Public Comments

GISConsortium





Public Notice Sign 1, facing property northeast



View of existing parking lot facing alley to northeast; degraded pavement



Public Notice Sign 2, facing property southeast



View of parking lot and adjacement multifamily development as well as existing Contour Saw facility facing northwest

Attachment 2



Graceland and Thacker Development East Side of Graceland Avenue (Site B)

NARRATIVE

The subject property contains approximately 53,472 sq. ft. of land and is improved with a surface parking lot with approximately 145 spaces. The exiting parking lot has no landscaping and was used in connection with Contours Saw, Inc.'s operations at the site across Graceland from the parking lot. The property is currently zoned C-3.

The Applicant for the rezoning proposes to redevelop the property with a four-story building containing 56 residential units, comprised of 41 one-bedroom units and 15 two-bedroom units. Sixty-four surface parking spaces will be located on-site, including three ADA spaces and two EV spaces. The proposed building's height will be 50 feet. Drop-off/Loading Zone will be provided adjacent to the proposed building's front door. The parking lot will be accessed via two driveways, one accessed from the 20 ft. public alley immediately adjacent to the rear of the site and a second from Oakwood Avenue. The façade materials will be primarily face brick, with fiber cement panels used on some sections.



STANDARDS FOR MAP AMENDMENTS

1. The proposed amendment is consistent with the goals, objectives, and policies of the comprehensive plan, as adopted February 2019.

The proposed rezoning will allow for the construction of multi-family housing near multi-modal facilities and Downtown, as the subject site is approximately five blocks from the Miner St. Metra Station and Downtown. It also will promote the development of multi-family units that would increase the housing diversity and provide housing for individuals and couples, and also aging residents that seek to continue an independent lifestyle while minimizing maintenance and ownership obligations. In addition, the supply of additional housing will assist in decreasing affordability concerns due to increased supply.

2. The proposed amendment is compatible with current conditions and the overall character of existing development in the immediate vicinity of the subject property.

The subject property is adjacent to an R-4 district to the north that extends north along Graceland and is generally developed with three, four and five-story multi-family buildings.

3. The proposed amendment is appropriate considering the adequacy of public facilities and services available to this subject property.

There are sufficient public facilities in terms of utilities to accommodate R-4 development, with stormwater detention being required for new developments per the Des Plaines municipal code. The existing streets can accommodate the anticipated traffic, which traffic may also be reduced due to the proximity of public transportation via Metra, the existing bike corridor along Thacker and the proposed bike corridor along Graceland. In terms of public open space, Central Park is located approximately three blocks east.

4. The proposed amendment will not have an adverse effect on the value of properties throughout the jurisdiction.

Because the proposed amendment will allow for development of multi-family residential of a scale compatible with adjacent properties and in a location where sufficient public facilities exist and resulting traffic can be accommodated, it will not have an adverse impact on property values within the City. In addition, the increase in tax base will help alleviate future tax increases on other properties and the increased



resident population will support existing area businesses, both of which will positively impact the property value of other properties.

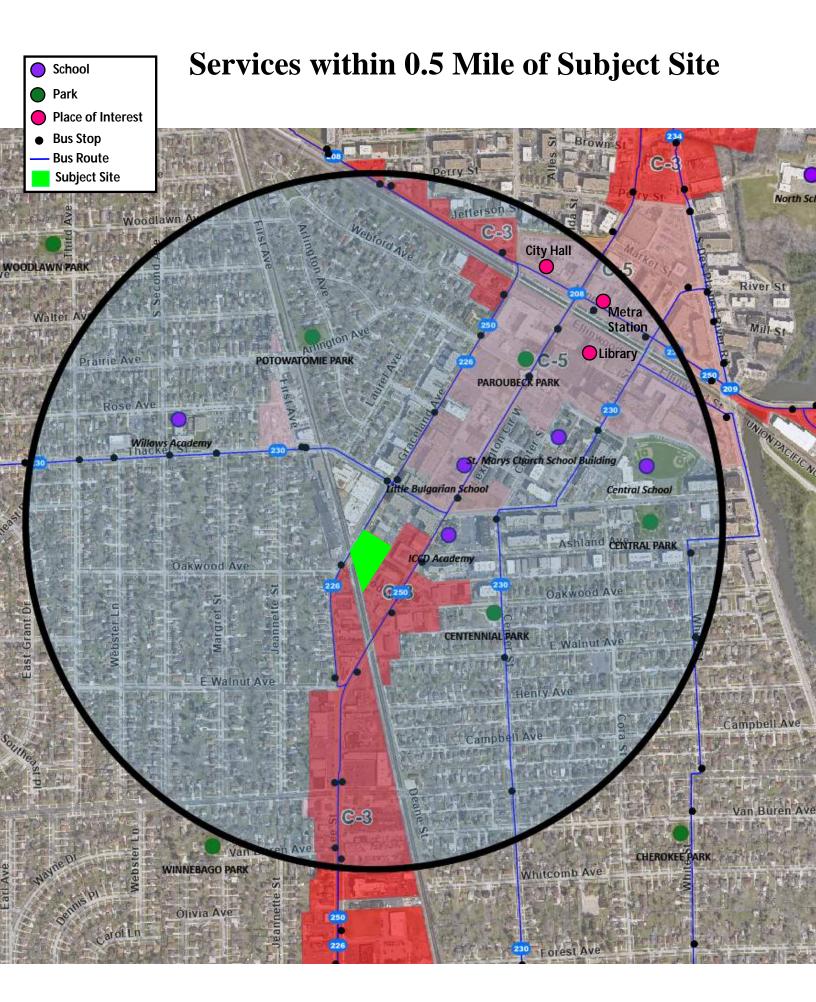
5. The proposed amendment reflects responsible standards for development and growth.

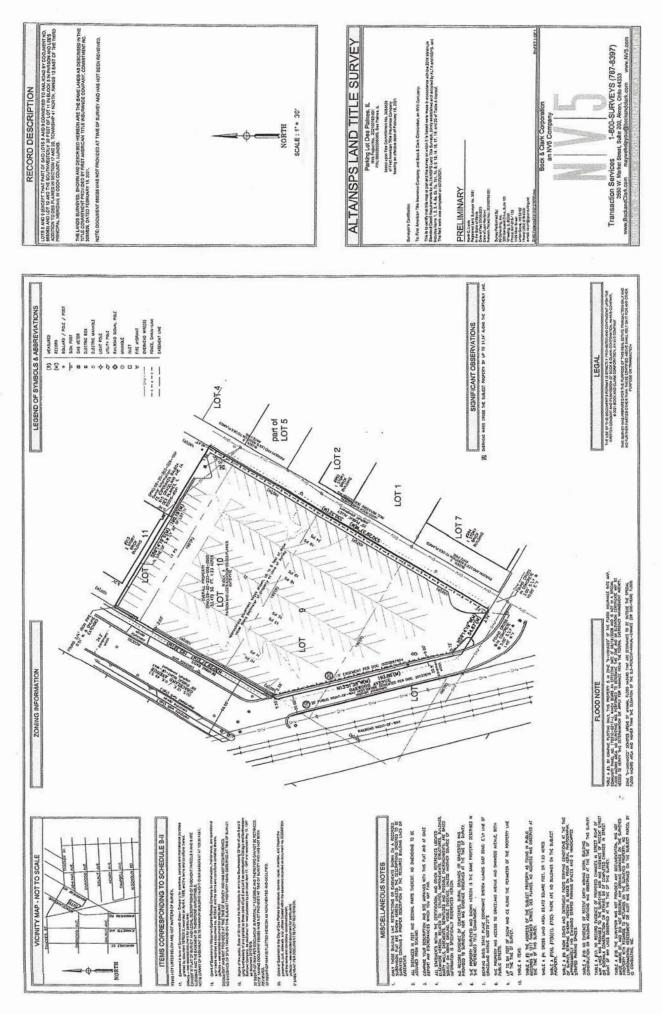
The proposed amendment is consistent with responsible standard for development and growth by promoting increase density at a location where it can be accommodated that is proximate to public transit and non-vehicular travel paths, such as bike corridors. It increases the utilization of existing municipal infrastructure without taxing such infrastructure and does so while enhancing the municipal tax base.



REAL PROPERTY TAX BASE IMPACT

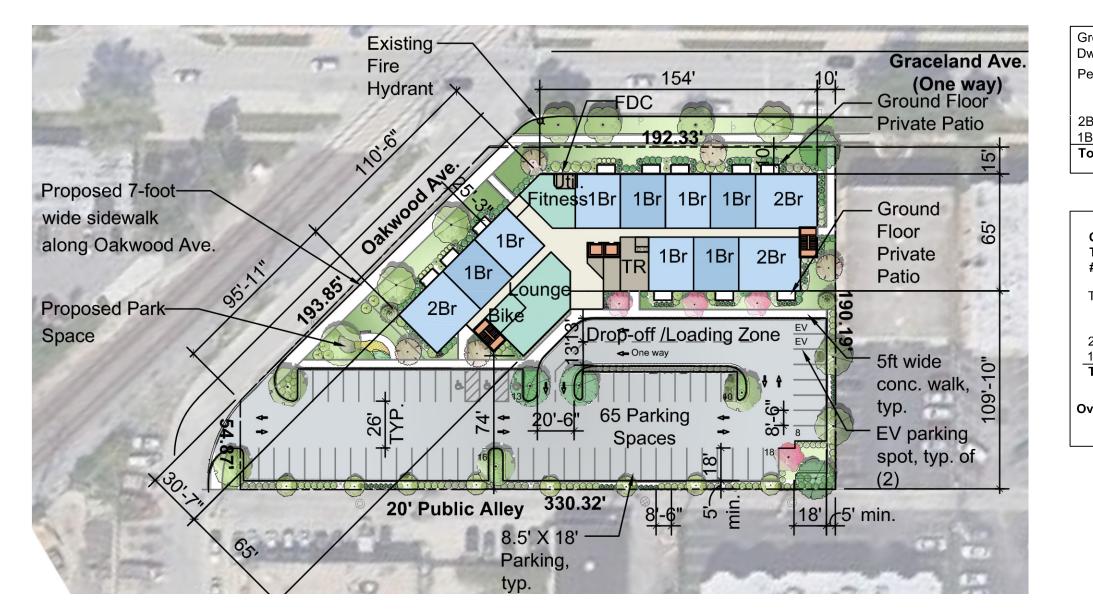
The 2021 real property taxes for the property were \$43,958.09. The anticipated real property taxes for the property after completion and occupancy of the proposed development will be \$224,000 (2023 dollars).





Attachment 5

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Luz and Associates #1 LLC



Gross Floor Welling Are		= 14,537 sf per floor = 9,090 sf per floor
er Floor:		
	Resi	Units
	Ratio	Count
Br	27%	3
Br	73%	8
otal		11

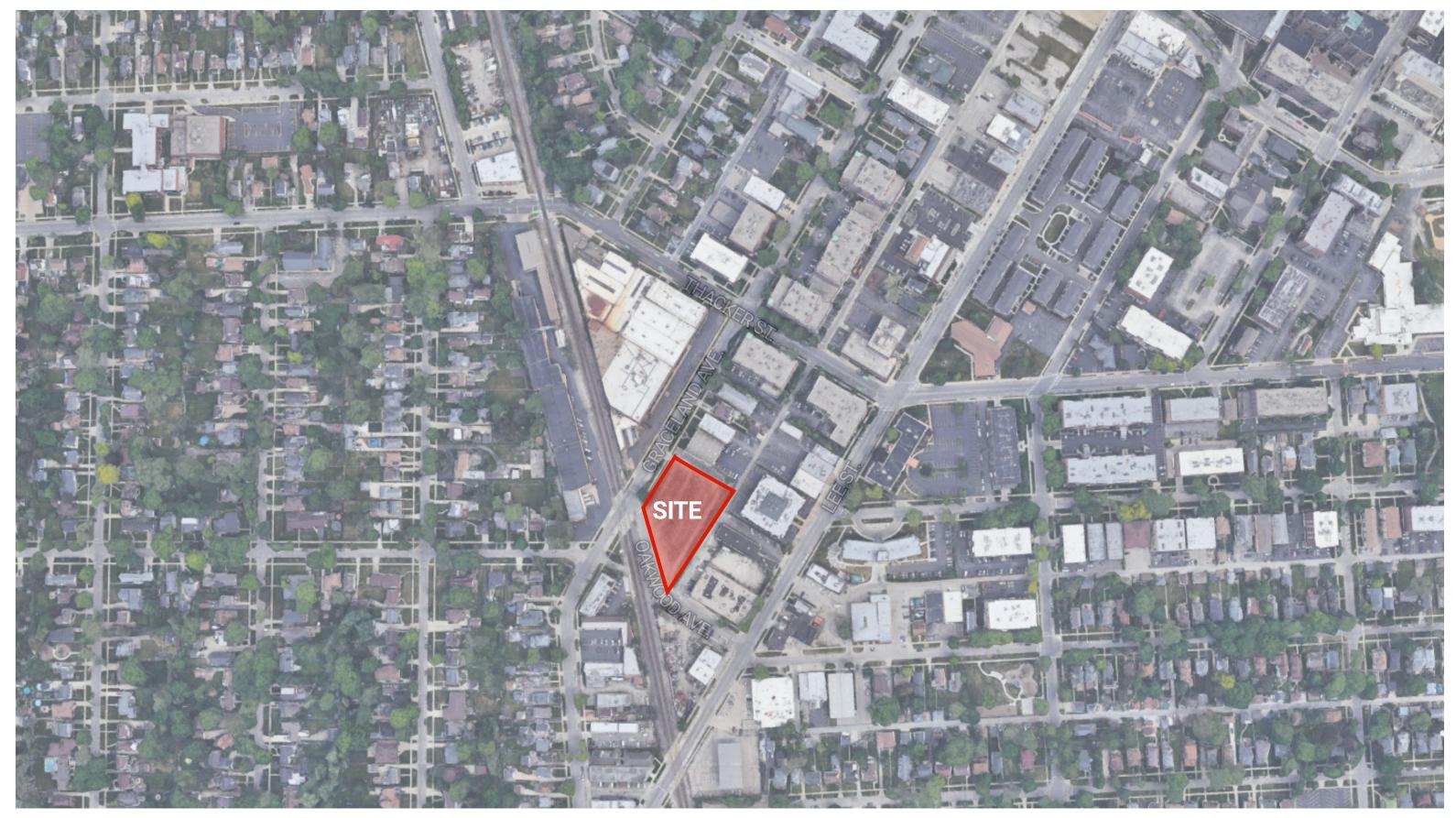
	iross Floor Area elling Area es	= 57,542 sf = 46,794 sf = 4
TOTAL:		
	Resi Units	Resi Parking
	Ratio Count	Ratio Req'd
2Br	27% 15	1.5 22.5
1Br	73% 41	1 41
Total	56	64 req'd
Overall:		Accessible Parking Provided (64 req'd)



Ground Level Plan

Graceland and Oakwood

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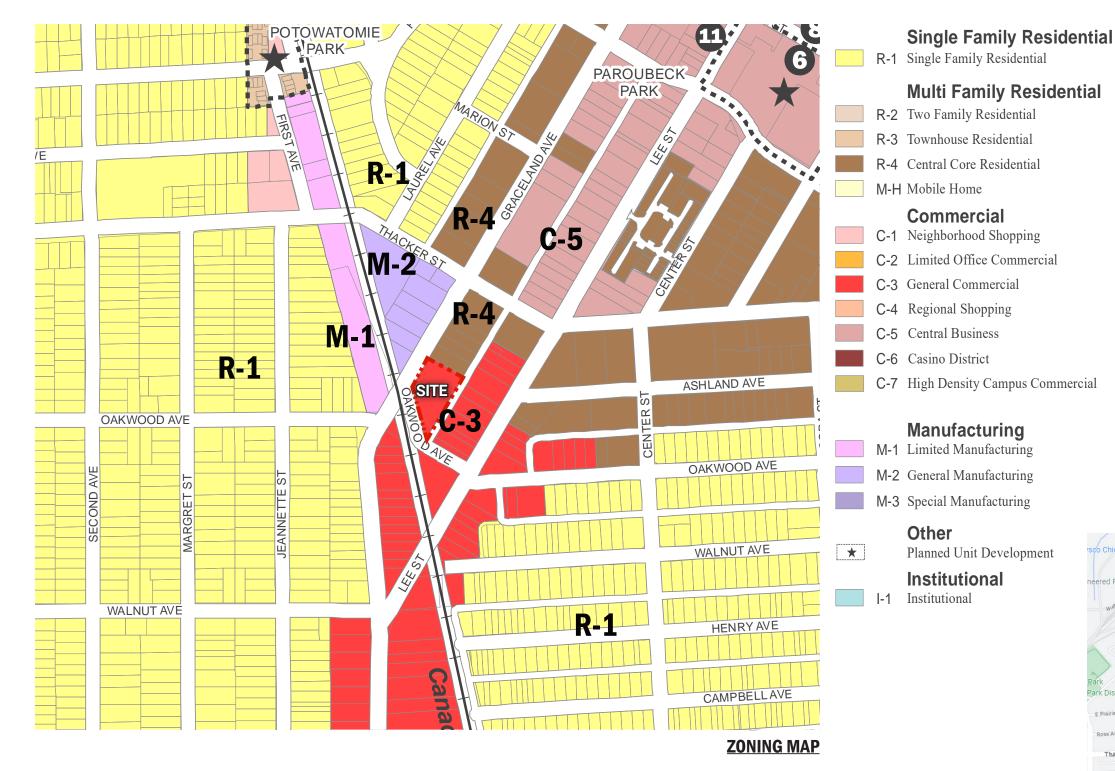
Owner/Developer: Luz and Associates #1 LLC



Architect: FitzGerald Attachment 7

Graceland and Oakwood Des Plaines, Illinois

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PROJECT SITE



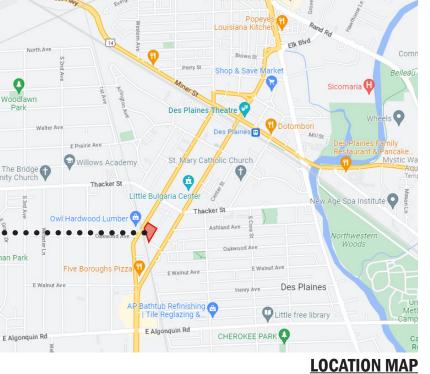
Luz and Associates #1 LLC



Zoning Map & Location Map

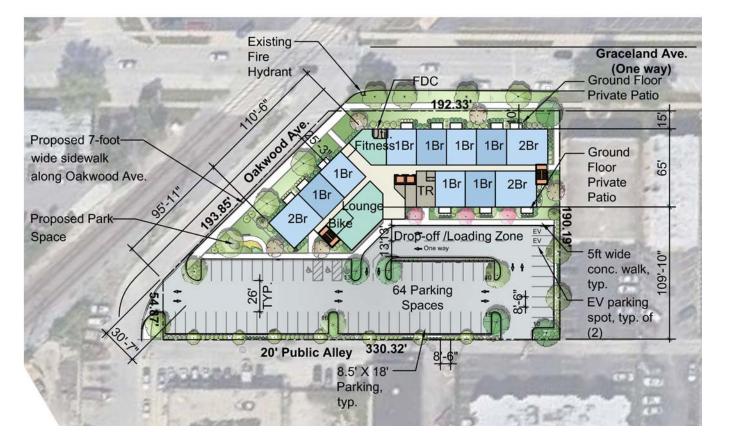
Graceland and Oakwood 2

Des Plaines Illinois July 18 2023 Page 24 of 209

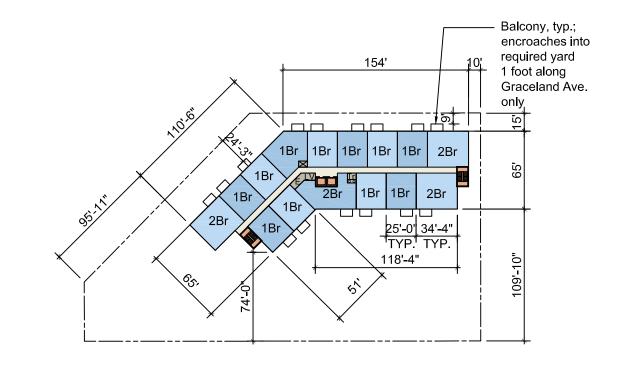


Chicago - Des Plaines

		Gross Floor Area Dwelling Area		37 sf per floor 9 sf per floor	
	Per Floor:				
		Resi	Units		
		Ratio	Count		
ĺ	2Br	27%	3		
	1Br	73%	8		
	Total		11		



Gross Floor Area = 14,335 sf per floor = 12,568 sf per floor Dwelling Area Per Floor: Resi Units Ratio Count 27% 4 2Br 1Br 73% 11 Total 15



Level 1 Plan

Luz and Associates #1 LLC



Levels 2-4 Plan

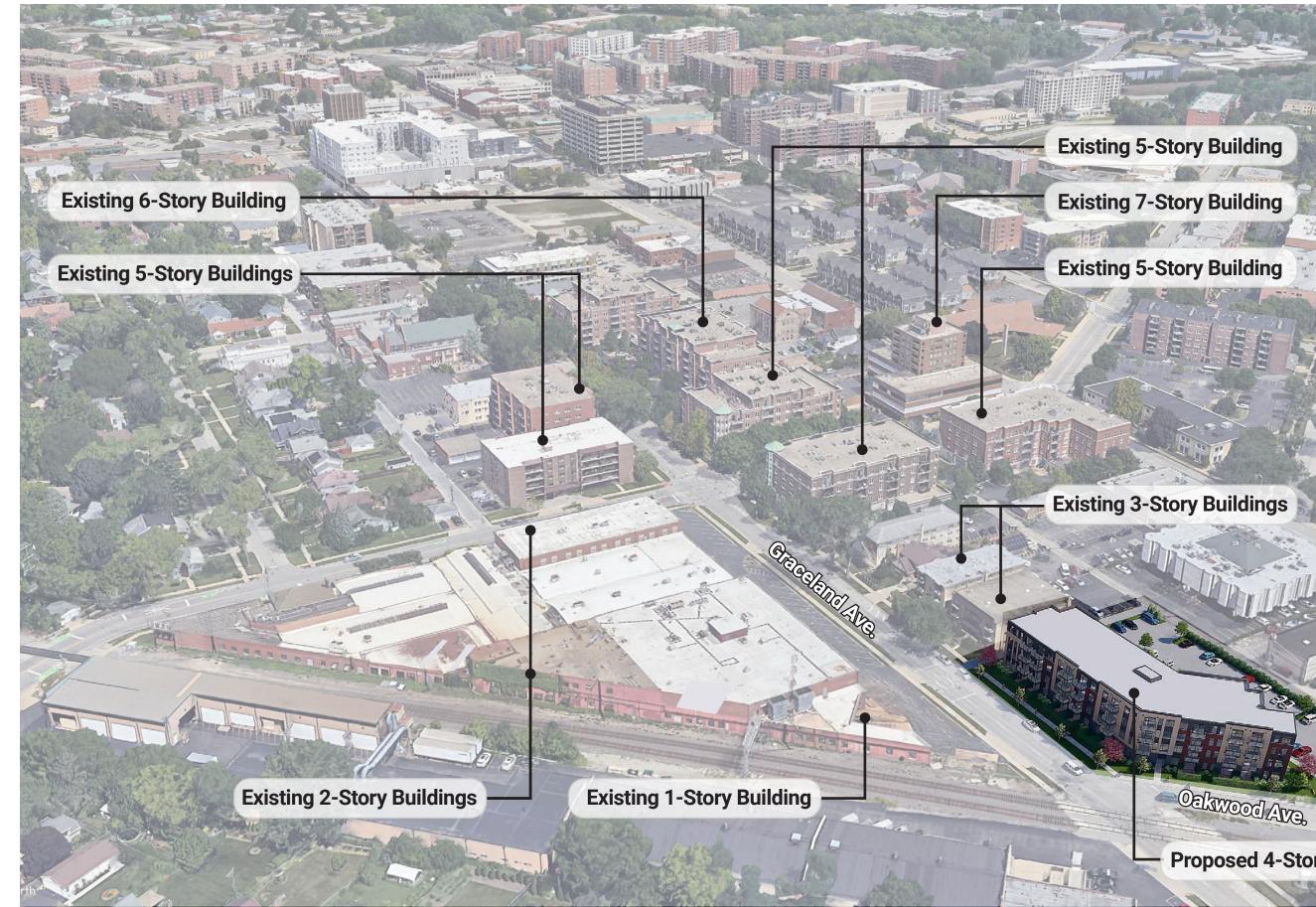
0.01 a.	Gross Floor Area relling Area ies	= 57,542 sf = 46,794 sf = 4
TOTAL:		
	Resi Units	Resi Parking
	Ratio Count	Ratio Req'd
2Br	27% 15	1.5 22.5
1Br	73% 41	1 41
Total	56	64 req'd
Overall:	61 Standard + 3 A Total: 64 Parking	ccessible Parking Provided (64 req'd)





Graceland and Oakwood

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Luz and Associates #1 LLC



Proposed 4-Story Building

Aerial View

4

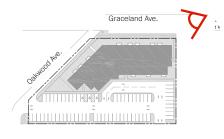
Graceland Ave.

Graceland and Oakwood Des Plair Page 26 of 209



Luz and Associates #1 LLC





Site B - Eye Level View along Graceland

Graceland and Oakwood Des Plaines Illinois J July 18 2023 Page 27 of 209







SOUTHWEST ELEVATION

Luz and Associates #1 LLC



SOUTHEAST ELEVATION

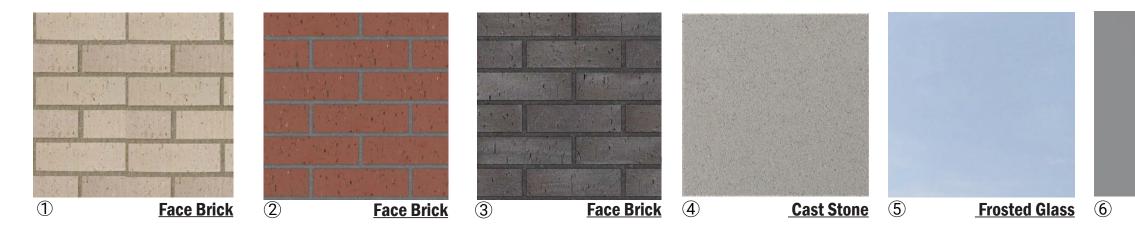
50'-0"

NORTHEAST ELEVATION

6

Proposed Building Elevations - Site B

Graceland and Oakwood Des Plaines Illinois July 18 2023 Page 28 of 209









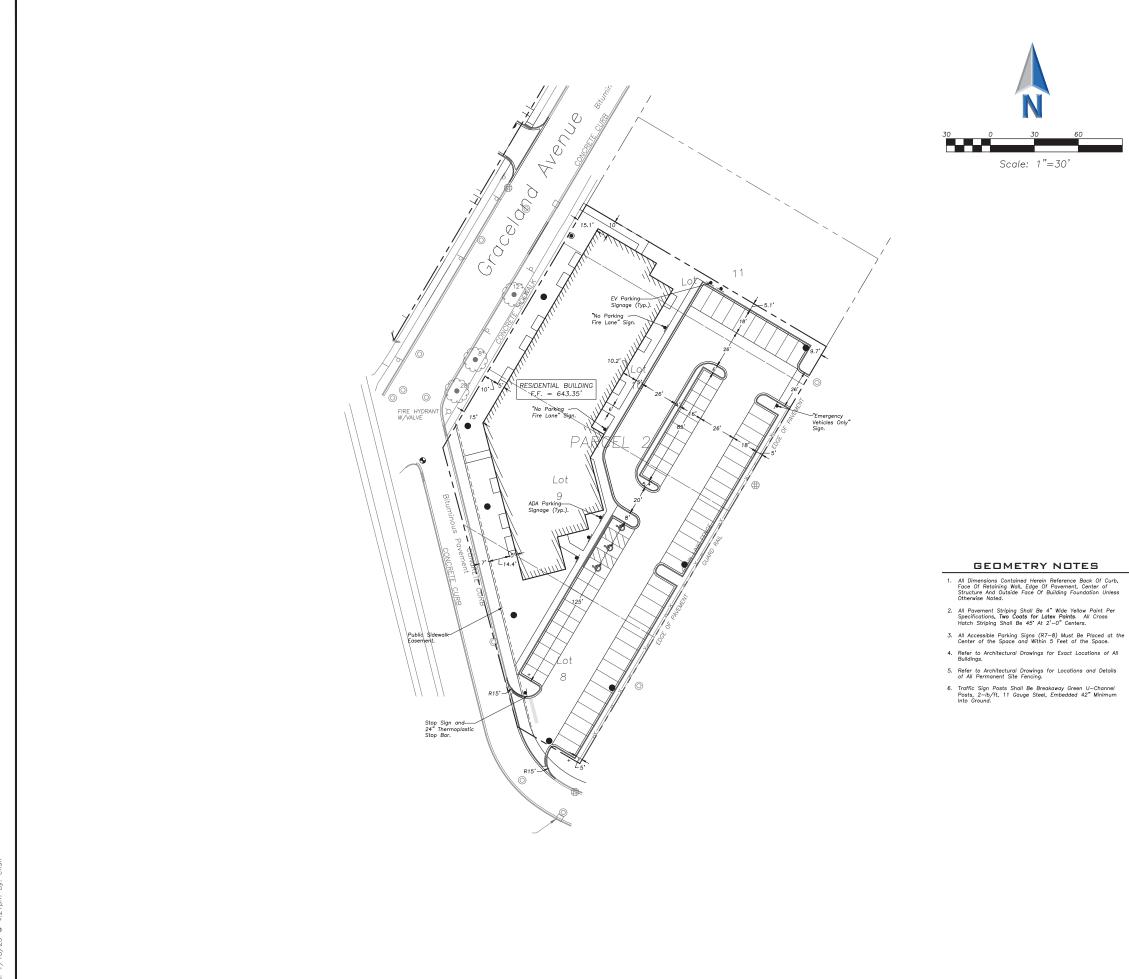
Fiber Cement



48'-0"

Materials

Graceland and Oakwood 7 Des Plaines Illinois 29 of 209



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EXISTING





G. <u>C 782.50</u> G 782.00 P 783.25 W 782.10 x 784.0

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GENERAL NOTES

The Location of Existing Underground Utilities, Such As Watermains, Severs, Gas Lines, Etc., As Shown On The Plans, Has Been Determined From The Best Available Information and Is Given For The Conventine of The Information on a la Given For The Convention of the Information Assume Responsibility in The Event That During Construction, Utilities Other Than Thoos Shown May Be Encountered, and That The Actual Location of Those Which Are Shown May Be Different From The Location As Shown On The Drawings. Contact Engineer Immediately If Surface and/or Suburdace Features Are Different Than The Drawings.

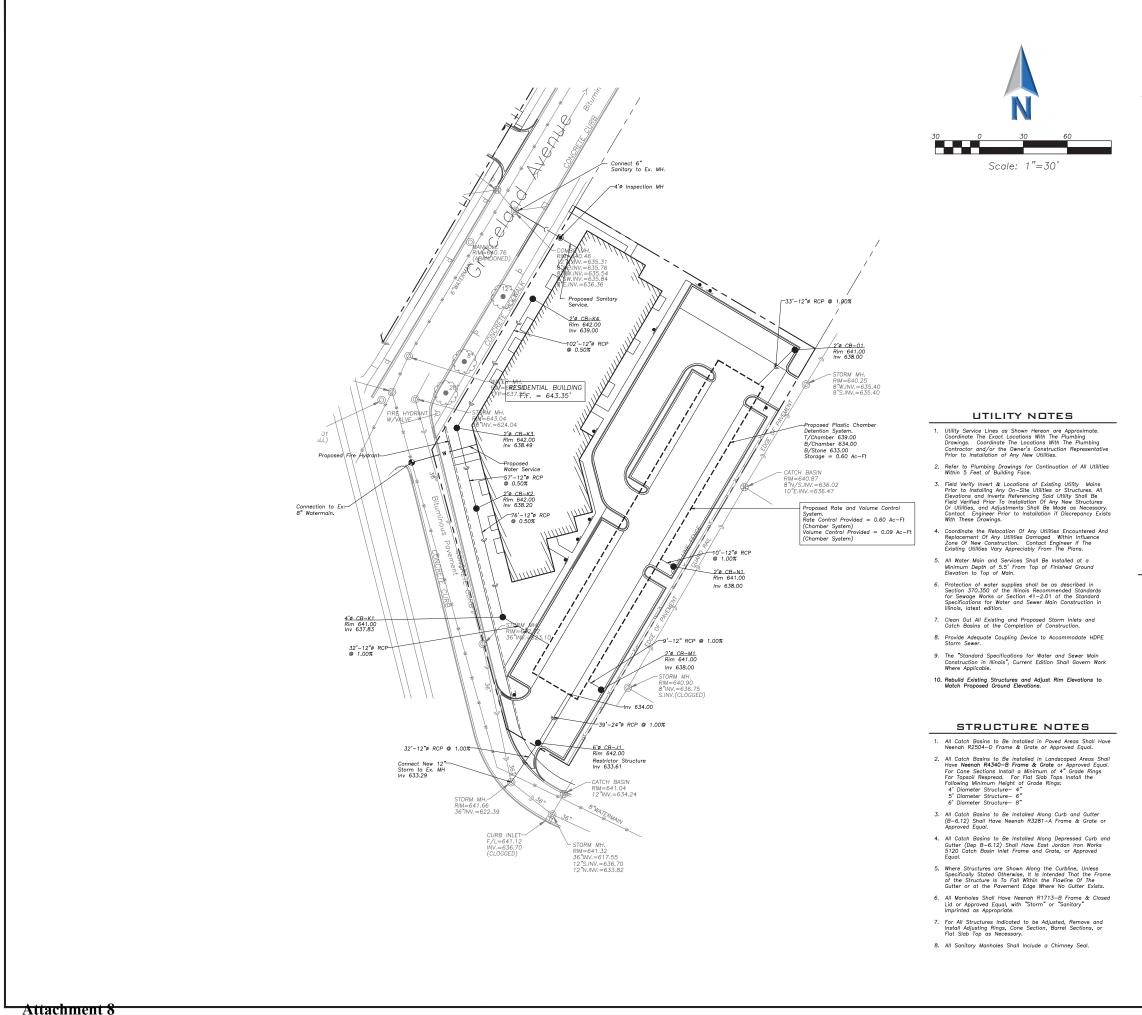
Tree Protection Fencing at Drip Line

- Notify The Engineer Without Delay of Any Discrepancies Between the Drawings and Existing Field Conditions.
- Contractor Shall Provide Private Utility Locating Services for the Project Area.
- Notify The Owner, Engineer and The City of Des Plaines A Minimum of 48 Hours In Advance of Performing Any Work.
- 5. All Areas, On or Off Site, Disturbed During Construction Operations and Not Part of the Work As Shown Herean Shall Be Restored To Original Condition to the Satisfactio of the Owner at No Additional Cost to the Owner. It is Incumbent Upon Contractor to Show That Damaged Areas Were Not Disturbed By Construction Operations.
- These Drawings Assume That The Contractor Will Utilize An Electronic Drawing File (DWG) to Stake All Site Improvements Accordingly. Contractor Shall Re–Establish Horizontal Control. Horizontal Control Points Not Provided.
- No Person May Utilize The Information Contained Within These Drawings Without Written Approval From Eriksson Engineering Associates, Ltd.
- Engineering Associates, Lici. 8. The Engineering Furshing These Drawings For Construction Purposes As A Convenience To The Owner, Architect, Surveyor, or Contractor. Prior To The Use Of These Drawings For Construction Purposes, The User Of This Media Shall Verify AI Dimensions And Lacotions of Buildings With The Foundation Drawings And Architations of All Stie Items. If Conflicts Evisit The User Of This Information Shall Contact The Engineer Immediately.
- 9. Provide An As-built Survey Prepared By A Licensed Professional Land Surveyor In Accordance With The Authorities Howing Jurisdiction Which Shall Include As a Minimum All Detention Basins and Best Management Practices, Include All Storm and Sonitary Severs, Structure Locations, Sizes, Rim and Invert Elevations, Final Detention Volume Calculations For The Basin(s), Watermain and Volve and Appurtenance Locations.
- 10. The Illinois Department Of Transportation Standard Specifications For Road And Bridge Construction Latest Edition, And Ail Addenda Thereto, Shall Govern The Earthwork And Paving Work Under This Contract Unless Noted Otherwise.



OMMUNITY THACKER SELAND & THACKER PLAINES, ILLINOIS Š Ũ GRACELAND & DES PLAINES GRACELAND RESIDENTIAL Reserved for Seal No. Date Description 05/22/23 ISSUE FOR VILLAGE SUBMITTAL 06/30/23 ISSUED FOR PZB 07/18/23 ISSUED FOR PZB C EPIKSSON ENGINEEPING ASSOCIATES, LTD., 2023 THIS PLAN & DESIGN ARE THE PROPERTY OF ENGINE DISONED BUILDING AND ANY PART OF THESE PLANS IS PERMITED WITHOUT THE WRITE CONFERT OF ERROSSON INDUSTRIES, MISSIONITS, LTD. esign By: CS CMF 05/30/23 Sheet Title: SITE GEOMETRY PLAN - SITE B Sheet No C201

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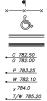


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GENERAL NOTES

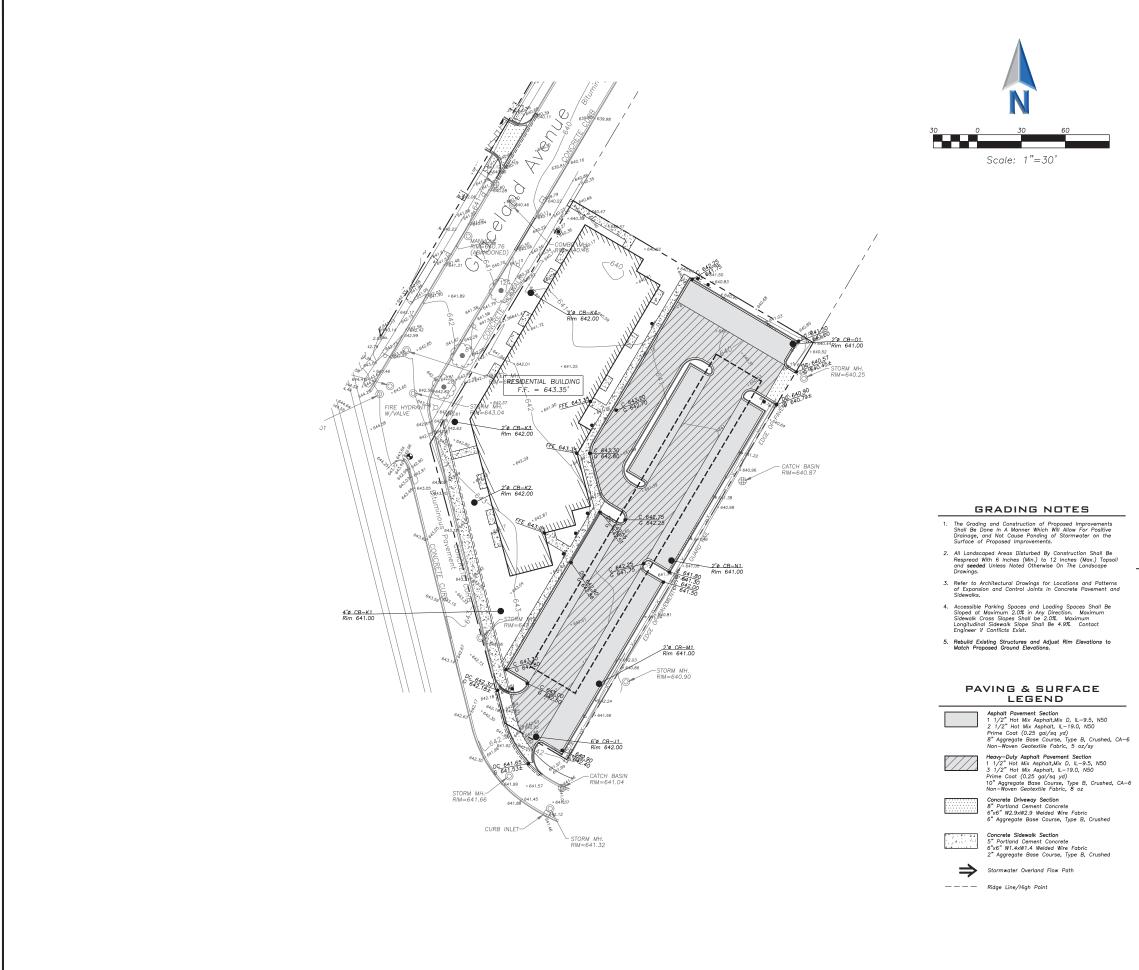
Tree Protection Fencing at Drip Line

- CONTREXAL INDITES
 Indicating Underground Utilities, Such As
 Watermains, Severs, Gas Lines, Etc., As Shown On The
 Pians, Has Been Determined From The Best Available
 Information and Is Given For The Convenience of The
 Contractor. However, The Owner and The Engineer Do Not
 Construction, Utilities Other Than Those Shown May Be
 Encountered, and That The Actual Location of Those Wrich
 Are Shown May Be Different From The Location As Shown
 On The Drawings. Contact Engineer Immediately If Surface
 and/or Suburface Features Are Different Than Shown On
 The Drawings.
- Notify The Engineer Without Delay of Any Discrepancies Between the Drawings and Existing Field Conditions.
- Contractor Shall Provide Private Utility Locating Services for the Project Area.
- Notify The Owner, Engineer and The City of Des Plaines A Minimum of 48 Hours In Advance of Performing Any Work.
- 5. All Areas, On or Off Sile, Disturbed During Construction Operations and Not Part of the Work As Shown Herean Shall Be Restored To Original Condition to the Satisfactio of the Owner at No Additional Cost to the Owner. It is Incumbent Upon Contractor to Show That Damaged Areas Were Not Disturbed By Construction Operations.
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- 8. The Engineer Is Furnishing These Drawings For Construction Purposes As A Convenience To The Owner, Architect, Surveyor, or Contractor. Prior To The Use Of These Drawings For Construction Purposes, The User Of This Badid as With The Al Dimatistic During Loadon Architectural Site Plan, and Coordinate All Dimensions and Locations of All Site Interns. If Conflicts Exist The User Of This Information Shall Contact The Engineer Immediately.
- 9. Provide An As-built Survey Prepared By A Licensed Professional Land Surveyor In Accordance With The Authorities Hoving Jurisdiction With Shall Include As a Minimum All Detention Basins and Best Management Practices, Include All Storm and Sanitary Severs, Structure Locations, Sizes, Rim and Invert Elevations, Final Detention Volume Calculations For The Basin(s), Watermain and Valve and Appurtenance Locations.
- 10. The Illinois Department Of Transportation Standard Specifications For Road And Bridge Construction Latest Edition, And Ail Addenda Thereto, Shall Govern The Earthwork And Paving Work Under This Contract Unless Noted Otherwise.



OMMUNITY С **OKE** , ILLINOIS THA Š \mathbf{O} Ś Š ENTIAL PLAINE GRACELAND **A** ВS GRACEL S ш Ē leserved for Seal: No. Date Description 05/22/23 ISSUE FOR VILLAGE SUBMITTAL 06/30/23 ISSUED FOR PZB 07/18/23 ISSUED FOR PZB THIS PLAN & DESIGN ARE THE PROPERTY OF ENKISSION EXCHEMISE ASSOCIATES, LTD. NO REPRODUCTION OF ANY PART OF THESE PLANS IS PERMITTED WITHOUT THE WRITE COMERTY OF ENKISSION EXCHEMISERY ASSOCIATES, LTD. esign By: Approved By: Date: CMF 05/30/23 Sheet Title SITE UTILITY PLAN - SITE B Sheet No: C301

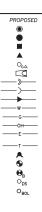
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EXISTING

LEGEND Manhole Catch Basin Inlet Area Drain Clean Out Flared End Section Storm Sewer Sanitary Sewe Combined Sewe Water Main Gas Line Overhead Wires Electrical Cable (Buried) Telephone Line Fire Hydrant Valve Vault Buffalo Box Downspout Bollard Gas Valve Gas Meter Electric Meter ComEd Manhole Hand Hole Light Pole Light Pole w/ Mast Arm Utility Pole Telephone Pedesta Telephone Manhole Sign Fence Accessible Parking Stall Curb & Gutter Depressed Curb Curb Elevation Gutter Elevation Pavement Elevation Sidewalk Elevation Ground Elevation Top of Retaining Wa Elevation Swale Contour Line Deciduous Tree Coniferous Tree Brushline



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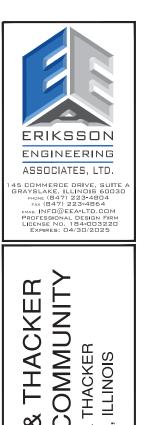
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GENERAL NOTES

Tree Protection Fencing at Drip Line

- The Location of Existing Underground Utilities, Such As Watermains, Severs, Gas Lines, Etc., As Shown On The Plans, Has Been Determined From The Best Available Information and Is Given For The Conventine of The Information on a la Given For The Convention of the Information Assume Responsibility in The Event That During Construction, Utilities Other Than Thoos Shown May Be Encountered, and That The Actual Location of Those Which Are Shown May Be Different From The Location As Shown On The Drawings. Contact Engineer Immediately If Surface and/or Suburdace Features Are Different Than The Drawings.
- Notify The Engineer Without Delay of Any Discrepancies Between the Drawings and Existing Field Conditions.
- Contractor Shall Provide Private Utility Locating Services for the Project Area.
- Notify The Owner, Engineer and The City of Des Plaines A Minimum of 48 Hours In Advance of Performing Any Work.
- All Areas, On or Off Site, Disturbed During Construction Operations and Not Part of the Work As Shown Hereon Sholl Be Restored To Original Condition to the Satisfaction of the Owner at No Additional Cast to the Owner. It is Incumbent Upon Contractor to Show That Damaged Areas Were Not Disturbed By Construction Operations.
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- Lingineering Associations, Liu. 8. The Engineers Lis Furnishing These Drawings For Construction Purposes As A Convenience To The Owner, Architect, Surveyor, or Contractor. Prior To The Use Of These Drawings For Construction Purposes, The User Of This Media Shall Weith All Benesions And Accidions Of Buildings With The Foundation Drawings And Architections of All Site Intens. If Conflicts Exist The User Of This Information Shall Contact The Engineer Immediately.
- Provide An As-built Survey Prepared By A Licensed Professional Land Survey or In Accordance With The Authonities Having Jurisdiction Which Shall Include at Authonities Having Jurisdiction Which Shall Include at Proceeding, Include All Storm and Sanitary Severs, Structure Locations, Sizes, Rim and Invert Elevations, Final Detention Volume Calculations For The Basin(s), Watermain and Valve and Appurtenance Locations.
- 10. The Illinois Department Of Transportation Standard Specifications For Road And Bridge Construction Latest Edition, And Ail Addenda Thereto, Shall Govern The Earthwork And Paving Work Under This Contract Unless Noted Otherwise.



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05/22/23 ISSUE FOR VILLAGE SUBMITTAL

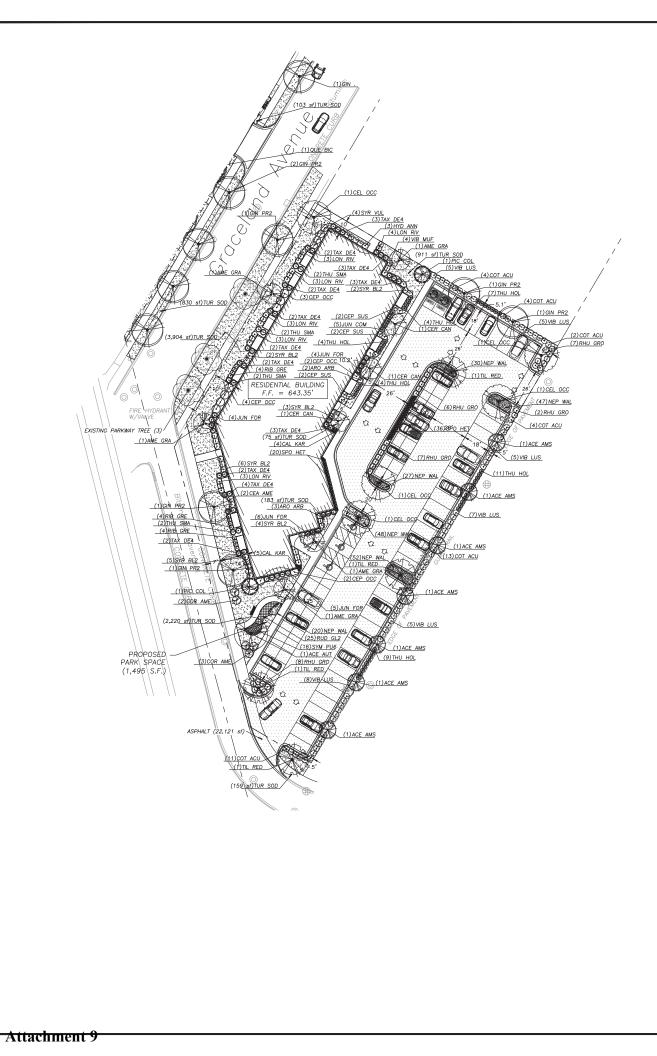
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PLANT SCHEDULE SITE B

CANOPY TREES ACE AUT ACE AMS CEL OCC GIN PR2 TIL RED	BOTANICAL <u>/ COMMON NAME</u> ACER RUBRUM 'AUTUMN FLAME' / AUTUMN FLAME MAPLE ACER X FREEMANI' ARMISTRONG' / ARMISTRONG FREEMAN MAPLE CELTIS OCCIDENTALIS / COMMON HACKBERRY GINKOO BULOBA 'PRINCETON SENTRY' / PRINCETON SENTRY GINKGO TILLA AMERICANA 'REDMOND' / REDMOND AMERICAN LINDEN
<u>EVERGREEN TREES</u> PIC COL	<u>BOTANICAL / COMMON NAME</u> PICEA PUNGENS 'COLORADO GREEN' / BLUE SPRUCE
<u>UNDERSTORY TREES</u> AME GRA CER CAN	<u>BOTANICAL / COMMON NAME</u> AMELANCHIER X GRANDIFLORA 'AUTUMN BRILLIANCE' / AUTUMN BRILLIANCE APPL CERCIS CANADENSIS / EASTERN REDBUD
<u>DECOLUCUES SHRUBS</u> ARO ARB CEA AME CEP SUS COR AME COT ACU LON RIV HTD ANN HTD ANN HTD ANN RHU GRO RHU GRO SYR BL2 VIB MUF VIB LUS	BOTANICAL / COMMON NAME AROMA ABUTIOUM / RED CHOKEBERRY CENNOTHUS AMERICANUS / NEW JERSEY TA CEPHALANTHUS OCCIDENTALIS / BUTTONBUSH CEPHALANTHUS OCCIDENTALIS / SMCOSS' / SUGAR SHACK® BUTTONBUSH COMUSS MERICANA / AMERICAN COTONEASTER ACUTITOUUS / PEKING COTONEASTER DERVILA X G2X88544 / KODAK® ORANGE DERVILA HIDRANGEA ARBORESCENS 'ANNABELLE / ANNABELLE SMOOTH HYDRANGEA RHUS AROMATICA 'GRO-LOW ', GON-LOW FRAGRANT SUMAC RHUS AROMATICA 'GRO-LOW ', GON-LOW FRAGRANT SUMAC RHUS AROMATICA 'GRO-LOW ', GON-LOW FRAGRANT SUMAC RESS ALPINUM 'GREEN MOUND ', GREEN MOUND ALPINE CURRANT SYRNIGA X', ELOUMERANG', BLOOMERANG LUAC VIBURANUM DENTATUM 'BLUE MUFIN' / SOUTHERN ARROWNOOD
EVERGREEN SHRUBS JUN COM JUN FOR TAX DE4 THU HOL THU SMA	BOTANICAL / COMMON NAME JUMIFERUS CHINENSIS "PETIZERIANA COMPACTA' / COMPACTA PETIZER JUMIFERUS CHINENSIS "SEG GREEN' / SEA GREEN JUNIPER TAXUS X MEDA / DENSE YEW THUA OCCIDENTALIS "HOLMSTRUP" / HOLMSTRUP ARBORVITAE THUA OCCIDENTALIS "SMARAGO" / EMERALD GREEN ARBORVITAE
<u>GRASSES</u> CAL KAR SPO HET	<u>BOTANICAL / COMMON NAME</u> CALAWAGROSTS X ACUTIFLORA 'KARL FOERSTER' / FEATHER REED GRASS SPOROBOLUS HETEROLEPIS / PRAIME DROPSEED
<u>PERENNIALS</u> NEP WAL RUD GL2 SYM PU6	<u>BOTANICAL / COMMON NAME</u> NEPETA X FASSENII 'MALKERS LOW' / WALKERS LOW CATMINT RUDBECKR LUIGIDA 'CIODSTRUM' / BLACK-EYED SUSAN SYMPHYOTRICHUM NOVAE-ANGLIAE 'PURPLE DOME' / NEW ENGLAND ASTER
<u>TURF_GRASS</u> TUR_SOD	<u>BOTANICAL / COMMON NAME</u> TURF SOD / DROUGHT TOLERANT FESCUE BLEND

LANDSCAPE NOTES:

- 1. PLANT QUANTITIES SHOWN IN THE PLANT SCHEDULE ARE FOR CONVENIENCE ONLY. THE CONTRACTO ALL MATERIALS SHOWN ON THE PLAN AND SHOULD NOT RELY ON THE PLANT SCHEDULE FOR DETER
- 2. ALL PLANT MATERIALS SHALL BE NURSERY GROWN STOCK AND SHALL BE FREE FROM ANY DEFORMITIES, DISEASES OR INSECT DAMAGE. ANY MATERIALS WITH DAMAGED OR CROOKED/DISFIGURED LEADERS, BARK ABRASION, SUNSCALD, INSECT DAMAGE, ETC. ARE NOT ACCEPTABLE AND WILL BE REJECTED. TREESS WITH MULTIPLE LEADERS WILL BE REJECTED LUNESS CALLED OUT IN THE PLANT SCHEDULE AS MULTI-STEM. NO PRUNING TO BE DONE AT THE TIME OF INSTALLATION EXCEPT FOR DEAD OR BROKEN LIMBS.
- 3. ALL LANDSCAPE IMPROVEMENTS SHALL MEET MUNICIPALITY REQUIREMENTS AND GUIDELINES, WHICH SHALL BE VERIFIED BY MUNICIPAL AUTHORITIES. 4. ALL PLANTING OPERATIONS SHALL BE COMPLETED IN ACCORDANCE WITH STANDARD HORTCULTURAL PRACTICES. THIS MAY INCLUDE, BUT NOT BE LIMITED TO, PROPER PLANTING BED AND TREE PIT PREPARATION, PLANTING MIX, PRUNING, STAKING AND GUYING, WRAPPING, SPRAYING, FERTILIZATION, PLANTING AND ADEQUATE MAINTENANCE OF MATERIALS DURING CONSTRUCTION ACTIVITIES.
- 5. ALL PLANT MATERIALS SHALL BE INSPECTED AND APPROVED BY THE LANDSCAPE ARCHITECT PRIOR TO INSTALLATION. ANY MATERIALS INSTALLED WITHOUT APPROVAL MAY BE REJECTED.
- 6. THE CONTRACTOR SHALL GUARANTEE PLANT MATERIALS FOR A PERIOD OF ONE YEAR FROM DATE OF ACCEPTANCE BY OWNER. THE CONTRACTOR SHALL OUTLINE PROPER MAINTENANCE PROCEDURES TO THE OWNER AT THE TIME OF ACCEPTANCE. DURING THE GUARANTEE PERIOD, DEAD OR DISEASED MATERIALS SHALL BE REPLACED AT NO COST TO THE OWNER. AT THE END OF THE GUARANTEE PERIOD THE CONTRACTOR SHALL OBTAIN FINAL ACCEPTANCE FROM THE OWNER.
- 7. ANY EXISTING TREES TO BE RETAINED SHALL BE PROTECTED FROM SOIL COMPACTION AND OTHER DAMAGES THAT MAY OCCUR DURING CONSTRUCTION ACTIVITIES BY ERECTING FENCING AROUND SUCH MATERIALS AT A DISTANCE OF 8.5' FROM THE TRUNK.
- 8. ALL GRASS, CLUMPS, OTHER VEGETATION, DEBRIS, STONES, ETC.. SHALL BE RAKED OR OTHERWISE REMOVED FROM PLANTING AND LAWN AREAS PRIOR TO INITIATION OF INSTALLATION PROCEDURES.
- 9. THE CONTRACTOR SHALL VERIFY THE LOCATIONS OF ALL UNDERGROUND UTILITIES PRIOR TO INITIATING PLANTING OPERATIONS. THE CONTRACTOR SHALL REPAIR/ REPLACE AND UTILITY, PAVING, CURBING, ETC.. WHICH IS DAMAGED DURING PLANTING OPERATIONS.
- SIZE AND GRADING STANDARDS OF PLANT MATERIALS SHALL CONFORM TO THE LATEST EDITION OF ANSI Z60.1, AMERICAN STANDARDS FOR NURSERY STOCK, BY THE AMERICAN NURSERY & LANDSCAPE ASSOCIATION.
- 11. REFER TO PLAT OF SURVEY FOR LEGAL DESCRIPTION, BOUNDARY DIMENSIONS AND EXISTING CONDITIONS. 12. ALL PLANT MATERIAL ON THIS PLANTING PLAN REPRESENTS THE INTENTION AND INTENSITY OF THE PROPOSED LANDSCAPE MATERIAL. THE EXACT SPECIES AND LOCATIONS MAY VARY IN THE FIELD DO TO MODIFICATIONS IN THE SITE IMPROVEMENTS AND THE AVAILABILITY OF PLANT MATERIAL AT THE TIME OF INSTALLATION. ANY SUCH CHANGES MUST FIRST BE APPROVED BY THE CITY IN WRITING
- 13. ALL PLANT MATERIAL SHALL BE PLANTED WITH A MINIMUM OF SIX INCHES OF ORGANIC SOIL AND MULCHED WITH A SHREDDED BARK MATERIAL TO A MINIMUM 3" DEPTH.
- 14. ALL BEDS SHALL BE EDGED, HAVE WEED PREEMERGENTS APPLIED AT THE RECOMMENDED RATE.
- 15. ALL PARKWAYS SHALL HAVE LAWN ESTABLISHED WITH SEED A GROUNDCOVER, UNLESS OTHERWISE NOTED.
- 16. ALL LAWN AREAS ON THIS PLAN SHALL BE GRADED SMOOTH AND TOPPED WITH AT LEAST 6" OF TOPSOIL. ALL LAWN AREAS TO BE ESTABLISHED USING SEED BLANKET UNLESS OTHERWISE NOTED. BLANKET TO BE \$75 OR APPROVED EQUAL
- 17. THIS LANDSCAPE PLAN ASSUMES THE SITE WILL BE PREPARED WITH TOP SOL SUITABLE FOR THE ESTABLISHMENT OF THE LANDSCAPE MATERIAL PRESENTED ON THIS PLAN. IF ADDITIONAL TOP SOLL IS REQUIRED IT IS UP TO THE LANDSCAPE CONTRACTOR ON THE PROJECT TO PROVIDE, SPREAD AND PREPARE THE SITE AS NEEDED FOR THE IMPLEMENTATION OF THIS LANDSCAPE PLAN.
- 18. CONTRACTORS MUST VERIFY ALL QUANTITIES AND OBTAIN ALL PROPER PERMITS AND LICENSES FROM THE PROPER AUTHORITIES. 19. ALL MATERIAL MUST MEET INDUSTRY STANDARDS AND THE LANDSCAPE ARCHITECT HAS THE RIGHT TO REFUSE ANY POOR MATERIAL OR WORKMANSHIP.
- 20. LANDSCAPE ARCHITECT IS NOT RESPONSIBLE FOR UNSEEN SITE CONDITIONS. 21. ALL PLANTINGS SHALL BE SPACED EQUAL DISTANT, BACK FILLED WITH AMENDED SOIL IN A HOLE TWICE THE ROOTBALL DIAMETER, WATERED, FERTILIZED, PRUNED, AND HAVE ALL TAGS AND ROPES REMOVED.
- 22. LAWN AND BED AREAS SHALL BE ROTOTILLED, RAKED OF CLUMPS AND DEBRIS
- 23. REMOVE ALL DEAD AND DISEASED PLANT MATERIAL FROM SITE AND DISPOSE OF PROPERLY.
- 24. PLANTS TO BE PLANTED SO THAT ROOT FLARE IS AT THE GRADE OF THE AREA WHERE PLANTED. NO PRUNING TO BE DONE AT THE TIME OF INSTALLATION EXCEPT TO REMOVE DEAD OR BROKEN LIMBS.

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	Sc	ale: 1"=	30'	

	<u>COND</u>	<u>SIZE</u> 2.5" CAL. 2.5" CAL. 2.5" CAL. 2.5" CAL. 2.5" CAL.	<u>QTY</u> 1 7 5 5 4
	COND	<u>SIZE</u>	<u>QTY</u>
	B&B	6' – 8' HT.	2
PLE SERVICEBERRY	<u>COND</u>	<u>SIZE</u>	<u>QTY</u>
	B&B	8' CLUMP	5
	B&B	2.5" CAL.	3
	COND. B & B B & B B & B B & B CONT. B & B CONT. B & B CONT. B & B B & B B & B B & B B & B B & B B & B B & B B & B	SIZE 30" HT. 30" HT. 24" HT. 36" HT. 36" HT. 36" HT. 30" HT. 24" HT. 24" HT. 30" HT. 30" HT. 30" HT. 30" HT.	<u>QTY</u> 5 2 11 6 5 38 19 3 30 12 4 22 4 35
	<u>COND.</u>	<u>SIZE</u>	<u>QTY</u>
	B & B	24" HT.	5
	B & B	24" SPREAD	19
	B & B	30" HT.	30
	B & B	36" HT.	39
	B & B	48" HT.	8
	<u>COND.</u>	<u>SIZE</u>	<u>QTY</u>
	CONT.	#1	9
	CONT.	#1	56
	<u>COND</u>	<u>SIZE</u>	<u>0TY</u>
	CONT.	#1	224
	CONT.	#1	25
	CONT.	#1	16
	COND	SIZE	ΟΤΥ

	RESPONSIBLE	PROVIDING	AND	INSTALLING	
RMINING	QUANTITIES.				

COND SIZE SOD S.F. <u>QTY</u> 7,452 SF

ERIKSSON ENGINEERING ASSOCIATES, LTD. 45 DOMMERCE DRIVE, SUITE A GRAYSLAKE, ILLINDIS 60030 PHONE (847) 223-4804 FAX (847) 223-4864 EMAIL INFO@EEA-ITD.COM PROFESSIONAL DESIGN FIRM LICENSE NO. 184-003220 EXPIRES: 04/30/2025

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TINUMMO 0 X THATCHER 3, ILLINOIS THA Š \bigcirc Ś. ∞ **PLAINE** AND GRACELAND 8 DES PLAINE TIAL Ш . Z Ш GRAC S Ш С erved for Sea o. Date Description PROGRESS PLAN 05/12/2023 05/22/2023 ISSUE FOR VILLAGE SUBMITTAL 06/30/2023 ISSUED FOR PZB 07/18/2023 ISSUED FOR PZB

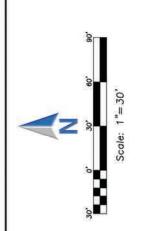
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LVE "PURPLE DOWE" / NEW ENGLAVID ASTER CONT. 11 DOND SZE WIT FESCUE BLEND SOD S.F.	LUE FURFLE DOME / NEW ENGLAND ASTER CONT. 11 COMD SIZE	CHUM NOVAE-ANGLUE PURPLE DOME' / NEW ENCLAND ASTER	and the second second second the second	Г В & B 30° H/T. 12 B & B 30° H/T. 12 B & B 30° H/T. 22 B & B 30° H/T. 22 B & B 30° H/T. 22 COMD. 222 20 COMD. 222 20 B & B 30° H/T. 35 B & B 30° H/T. 30 B & B 30° H/T. 30 B & B 30° H/T. 30 COMD. 222 20 COMD. 222 21 COMD. 222 21 COMD. 222 21 COMD. 222 21 COMD. 222 21 COMT. 1 2 COMT. 22 COMT. 22	T CONT: 24 ⁺ MT: 30 B & B 30 ⁺ MT: 12 B & B 30 ⁺ MT: 12 B & B 30 ⁺ MT: 22 B & B 30 ⁺ MT: 22 B & B 30 ⁺ MT: 35 CONE 202020 527 B & B 24 ⁺ SPREND 19 B & B 30 ⁺ MT: 30 B & B 30 ⁺ MT: 30 B & B 30 ⁺ MT: 30 CONE 207 CONE 217 CONE 217 CO	PRAMADICA B & & B 35" HT. 3 r COWT. 24" HT. 30 COWT. 24" HT. 30 B & B 30" HT. 12 B & B 30" HT. 4 B & B 30" HT. 5 CDDAD SZZ 21 B & B 30" HT. 5 B & B 30" HT. 30 B & B 30" HT. 30 B & B 30" HT. 30 COMOL #1 5 COMT #1 5 <td>No</td> <td></td> <td></td> <td></td> <td></td>	No				
LVE "PURPLE DOWE" / NEW EVOLUND ASTER CONID SIZE QIX WT FESCUE BLEND S 5.F. 7,452 SF	LVE "PURPLE DOME" / NEW ENCLAND ASTER CONT. 11 16 COMD SIZE OIX	CHUM NOVIE-ANGLUE 'PUBPLE DOWE' / NEW ENCLAND ASTER CONT. #1 16		Г СОМТ. 24° МТ. 12 В & B 30° МТ. 12 В & B 30° МТ. 4 В & B 30° МТ. 22 В & B 30° МТ. 22 В & B 30° МТ. 22 СОМО. 222 0.0° В & B 30° МТ. 35 В & B 20° МТ. 30 В & B 30° МТ. 30 СОМО. 222 0.0° В & B 30° МТ. 30 В & B 30° МТ. 30 СОМО. 222 0.0° В & B 30° МТ. 30 В & В 30° МТ. 30° МТ. 30° МТ. 30 В & В & В 30° МТ. 30° МТ. 30° МТ. 30° МТ. 30° МТ. 30°	Γ CONT. 24" MT. 30 8 & 8 30" HT. 12 8 & 8 30" HT. 4 8 & 8 30" HT. 4 9 & 6 B 30" HT. 4 9 & 6 B 30" HT. 4 M000 8 & 8 30" HT. 4 8 & 8 30" HT. 5 35 8 & 8 24" SPREJO 19 5 8 & 8 36" HT. 5 35 684S 36" HT. 35 35 684S 36" HT. 35 35 684S 55 35" HT. 35 684S 55 35" HT. 35 684S 56 35" HT. 35 684S 55 35" HT. 35	Detaulock B & & B 35" HT. 3 COUT. 24" HT. 30 COUT. 24" HT. 30 B & B 30" HT. 12 B & B 30" HT. 4 HM000 B & B 30" HT. 22 B & B 30" HT. 22 B & B 30" HT. 22 CD000 SZE 20" HT. 35 ER 24" HT. 35 CD000 SZE 20" GDC 35 B & B 24" HT. 30 35 COUT. 1" 35		25		CONT.	,егоргики, / впаск-
'GLODSTRIM' / BLACK-ENED SUSAN CONT. // 25 NAE-ANGLWE 'PURPLE DOWE' / NEW ENGLAND ASTER CONT. // 16 ML NAME COMP SIZE QIT MT TOLERWIT FESCUE BLEND SOO S.F. 7.432 SF	"GLODSTRIM" / BLACK-ENED SUSAN CONT. /1 25 DME-ANGLWE FURPLE DOME" / NEW ENGLAND ASTER CONT. /1 16 DME-ANGLWE FURPLE DOME" / NEW ENGLAND ASTER COME 2012	GLOOSTRIAM' / BLACK-EYED SUSAW COMT. #1 25 DME-ANGLUE 'PURPLE DOME' / NEW ENGLAND ASTER COMT. #1 16	GLOGSTRUM' / BLACK-EYED SUSAW CONT. #1 25	Г СОМТ. 24° МТ. 12 В & B 30° МТ. 12 В & B 30° МТ. 4 В & B 30° МТ. 22 В & B 30° МТ. 22 СОМО. 26 24° 50° 19 В & B 24° МТ. 5 В & B 24° МТ. 5 В & B 24° МТ. 5 В & B 36° МТ. 3 В & В & В 36° МТ. 3 В & В & В & В В 36° МТ. 3 В & В & В & В & В & В & В & В &	Г СОМТ. 24° МТ. 30 СОМТ. 24° МТ. 12 В & B 30° МТ. 4 В & B 30° МТ. 4 В & B 30° МТ. 22 В & B 30° МТ. 22 В & B 30° МТ. 22 СОМО. 52 В & B 30° МТ. 35 СОМО. 52 В & B 24° 56 В & B 30° МТ. 35 В & B 30° МТ. 35 В & B 30° МТ. 35 В & B 30° МТ. 35 СОМО. 52 СОМО. 52 СОМО. 51 В & B 30° МТ. 35 СОМО. 2000. 2012 СОМО. 2012	PRAMADICA B & & B 35" HT. 3 COWT. 24" HT. 30 COWT. 24" HT. 30 B & B 30" HT. 12 B & B 30" HT. 4 B & B 30" HT. 4 MICOD B & B 30" HT. 4 MICOD B & B 30" HT. 4 MICOD B & B 30" HT. 35 B & B 24" Sprepul 5 30" B & B 30" HT. 30 30 B & B 30" HT. 30 30 CONID SIZE 30" 30 CONIT 1" 30 30" CONIT 1" 30 30" CONIT 1" 30" 30" CONIT 1" 30" 30" CONIT 1" 30 30" CONIT 1" 30" 30" CONIT 1" 30" 30"	—	224	-	CONT.	ereta X faassenii "Walkers low" / Walkers low cataint
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/ COMMON LANUE 2012 SIZE 2012 PAGSENN YAULERS LOW / MULERS LOW CITAINT CONT. /1 22 FULCIDA GLOSTRUM / BLACK-ETED SUSAN CONT. /1 25 CULUM NOVE-ANGLUE FURDLE DOWE' / NEW ENGLAND ASTER CONT. /1 16 / DROUGHT TOLEWAIT FESCUE BLEND SEC 20102 SIZE 20112 / DROUGHT TOLEWAIT FESCUE BLEND SOO S.F. 7.422 SF	/ COMMON LANUE FALCEDIN LANUE FALCEDIN 'A MULIERS LOW' / MULIERS LOW CATINAT FULCIDIN 'GLOOSTFRUM' / BULICK-EYED SUSAN FULCIDIN 'BULICK' / BULICK-EYED SUSAN FULCIDIN 'BULICK' / BULICK-EYED SUSAN FULCIDIN 'BULICK' / BULICK'	/ COMMON INVILE FALSEDIII "WULKERS LOW" / WULKERS LOW CATAINAT FULIDIA VOLOSTITUM" / BULKX-EPED SUSSAV FULIDIA VOLOSTITUM" / BULKX-EPED SUSSAV FULIDIA VOLOSTITUM" / BULKX-EPED SUSSAV FULIDIA VOLOSTITUM" / BULKX-EPED SUSSAV FULIDIA VOLOSTITUM / BULKX-EPED SUSSAV	/ comion lande Friceira (quostrum / bulck-efed susawi cont. /1 23	Г СОЛТ. 24° НТ. 12 В & B 30° НТ. 4 В & B 30° НТ. 4 В & B 30° НТ. 22 В & B 30° НТ. 22 СОЛС 2010. 201 В & B 36° НТ. 5 24° SPRED0 19 В & B 30° НТ. 5 В & B 30° НТ. 39 В & B 30° НТ. 39 В & B 30° НТ. 39 В & B 45° НТ. 39 СОЛС 5012 5012 В & B 45° НТ. 39 В & B 45° НТ. 39 СОЛС 5012 5012 СОЛС 5	r Cown: 24 m. 30 R ≈ B 30° m. 12 B ≈ B 30° m. 4 B ≈ B 30° m. 4 B ≈ B 30° m. 22 B ≈ B 30° m. 4 Mood B ≈ B 30° m. 4 Mood B ≈ B 30° m. 5 B ≈ B 30° m. 5 37 EN B ≈ B 24° m. 30 B ≈ B 30° m. 33 36° m. B ≈ B 30° m. 33 36° m. COMO SIZE 202 30 B ≈ B 30° m. 33 30 Could SIZE 202 30 Could SIZE 202 30 B ≈ B 45° m. 3 30 Could SIZE 202 30 Could SIZE 202 30 Could SIZE 202 30 Could	Determined B & & B 35" HT. 3 COUT. 24" HT. 30 COUT. 24" HT. 30 B & B 30" HT. 12 B & B 30" HT. 4 HOOD B & B 30" HT. B & B 30" HT. 4 HOOD B & B 30" HT. ER 30" HT. 35 ER 24" HT. 35 ER 30" HT. 35 ER 34" HT. 35 ER 30" HT. 35 ER 40" HT. 35 COMD SET 20" CD ER 40" HT. 35 ER 40" HT. 35 ER 40" HT. 35		56		CONT.	ьоковолия нетвиолетья / рюмате раоряеер
IS HETBROLEPTS / FRANTIE DIFOREED COVI. 11 56 / COMMON NAME PROCEED COM CATAINT COMIN 11 224 PLACIN VALVERS LOW CATAINT FULCIN VALORE LOW CATAINT FULCIN VALORE LOW CATAINT FULCIN VALORE VALORE SUSAV FULCIN VALORE VALORE LOW CATAINT COVI. 11 25 COMIN 14 15 COMIN VALORE COVI. 11 15 COMIN VALORE COVI. 12 24 COMIN VALORE COVI. 11 15 COMIN VALORE COVI. 12 24 COMIN VALORE COVI. 11 15 COMIN VALORE COVI. 12 24 COVI. 12 24 COVI. 14 COVI. 15 COV	IS HETBOLLPTS / FRAMME DROPSEED CONT. 11 56 / COMMON NAME RANSON MANE FULCIDN 'GLOOSTFRUM' / BUJCK-EPED SUSAN FULCIDN COMMON MANE / COMMON NAME	IS HETBROLEPTS / FRAURIE DROFSEED CONT. 11 56 / COMMON JAME FALSENII "MULIERS LOW / MULIERS LOW CIMINT CONT. 11 224 FULJION 'GLODSTRUM' / BUACK-EYED SUSAN CONT. 11 224 FULJION 'GLODSTRUM' / BUACK-EYED SUSAN STER CONT. 11 16 NG	IS HETBOLLPIS / FRAURIE DROPSEED CONT. 11 56 / COMMON JAULE FULCIDN 'RLUCERS LOW' / WILLERS LOW CATAINT CONT. 11 224 FULCIDN 'RLOOSTRUM' / BULICK-EVED SUSAW CONT. 11 224	WMT CONT. 24*HT. 12 B & B 30°HT. 4 B & B 30°HT. 22 B & B 30°HT. 22 B & B 30°HT. 22 RIZER B & B B & B 30°HT. 35 COMMODO B & B B & B 24°HT. 35 RIZER B & B B & B 24°SPREUD B & B 30°HT. 35 COMMODO B & B B & B 30°HT. 35 COMO SZZ	OM/T COWI: 24" HT. 30 OM/T COWI: 24" HT. 12 OM/T COWI: 24" HT. 12 B & B 30" HT. 4 B & B 30" HT. 4 B & B 30" HT. 4 MONNOCO B & B 30" HT. 35 FITZER DIX 12 22 RITZER B & B 24" SPREUD 19 B & B 36" HT. 30 FITZER B & B 36" HT. 30 CODIO SZE 201X CODIO SZE 201X CODIO SZE 201X CODIO SZE 201X	HITDRAWAGEA B & & B 36" H.T. 3 BWIT CONIT. 24" H.T. 30 CONIT. 24" H.T. 30 BMIT 24" H.T. 30 B & B 30" H.T. 4 FIZER B & B 30" H.T. 35 FIZER B & B 24" H.T. 35 FIZER B & B 30" H.T. 30 COMID SZZ 21" 21" FIZER B & B 30" H.T. 30 COMID SZZ 21" 30 FIZER B & B 36" H.T. 30		6	-	CONT.	alamggrostis X acutiflora 'Karl foerster' / feather reed grass
GRASS CONT. 11 9 CONT. 11 9 CONT. 11 56 CONT. 11 224 CONT. 11 224 CONT. 11 23 CONT. 11 28 CONT. 23 16 23 23 23 24 20 20 23 57 24 20 20 20 20 20 20 20 20 20 20 20 20 20	GRASS CONT. 11 9 CONT. 11 9 CONT. 11 56 CONT. 11 254 CONT. 11 254 CONT. 11 25 NG. 2500 SIZE DIX	GRASS CONT. 11 9 CONT. 11 9 CONT. 11 56 CONT. 11 224 CONT. 11 23 NAG	GRACSS COMT. 11 9 COMT. 11 56 COMT. 11 224 COMT. 11 224 COMT. 11 224	WMT CONT. 24" HT. 12 B & B 30" HT. 4 B & B 30" HT. 4 B & B 30" HT. 4 ROWHOOD B & B 35" HT. 35 ROMHOOD B & B 36" HT. 35 ROMHOOD B & B 36" HT. 5 RIZER B & B 24" SPREUD 19 B & B 30" HT. 30 B & B 30" HT. 30 B & B 36" HT. 30 B & B 36" HT. 30 C B & B 36" HT. 30	CONT. 24" HT. 30 DWT CONT. 24" HT. 12 B & B 30" HT. 4 B & B 30" HT. 4 R & B 30" HT. 22 B & B 30" HT. 35 CONNOCO B & B 35" HT. 5 B & B 24" HT. 5 B & B 30" HT. 30 B & B 30" HT. 30 B & B 30" HT. 30 B & B 45" HT. 35 CONNOCO	HTDRAWNEGA B & & B 35" HT. 3 DWNT CONT. 24" HT. 30 DWNT CONT. 24" HT. 12 DWNT CONT. 24" HT. 12 DWNT CONT. 24" HT. 12 DWNT 24" HT. 12 DWNT 24" HT. 12 DRAWNOOD B & B 30" HT. 4 PA & B 30" HT. 22 DRAWNOOD B & B 30" HT. 35 RIZER B & B 30" HT. 30 B & B 24" ST. 30 B & B 30" HT. 30 B & B 30" HT. 30 B & B 30" HT. 30	Rese	710	- 4	COND.	1
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8 & B 36° Hr. 39 8 & B 45° Hr. 39 60455 522 2012 COM: 11 9 COM: 11 26 COM: 11 224 COM: 11 224 COM: 11 224 COM: 11 16 0 ASTER COM: 21 16 COM: 22 21 10 16	8 & 8 36 +rr. 39 8 & 8 45 +rr. 3 8 & 8 45 +rr. 8 20002 SZZ 2012 COM: 11 5 COM: 11 25 COM: 11 25 COM: 11 25 COM: 11 16 COM: 11 16 COM: 22 4 COM: 23 4 COM: 24 4 COM: 25	B & B 36" Hr. 39 B & B 45" Hr. 3 B & B 45" Hr. 3 COMD SIZE 2012 COMT 11 3 COMT 11 3 COMT 11 3 COMT 11 25 COMT 11 25 COMT 11 25 DATER COMT 11 DATER COMT 11	B & B 36° HT. 39 B & B 45° HT. 3 B & B 45° HT. 3 CONC. 11 9 CONT. 11 9 CONT. 11 25 CONT. 11 224 CONT. 11 224	Г Сомт. В & В В & В	CONT. URBANT CONT. D B & B B & B ARCONNOCO B &	П' НПРЕМИСЕЛ В & В СОИТ: ИВЕМИТ СОИТ: ИВЕМИТ СОИТ: В & В В & В ОО В & В АРПОСИ В & В АРПОСИ В & В РЯТЕК В В & В В & В		30	-	B & B	KVUS X MEDIA / DENSE YEW
B & B 30° Hrit 30 B & B 36° Hrit 39 COND 512 201 CONT 11 36 CONT 11 234 CONT 11 234 CONT 11 234 CONT 11 16 D ASTER SCON 57 SCON 57 244	B & B 30° HT. 30 B & B 36° HT. 39 B & B 36° HT. 39 B & B 36° HT. 39 COMD SIZE 2000 COMT 11 25 COMT 11 25 COMT 11 25 COMT 11 25 COMT 11 16 COMT 11 16 COMT 11 16	B & B 30°HT. 30 B & B 36°HT. 33 B & B 36°HT. 33 B & B 46°HT. 35 COMD. SIZE 2012 COMD. 11 55 COMT. 11 55 COMT. 11 224 MM	B & B J0 ⁻ HT. J0 B & B J6 ⁻ HT. J9 B & B J6 ⁻ HT. J9 B & B J6 ⁻ HT. J9 CDMD SIZE 2002 CONT. J1 9 CONT. J1 224 CONT. J1 224	г соит: 8 & 8 8 & 8 8 & 8 8 & 8 мисоо 5 & 8 2000. 57	CONT. JROWNT CONT. CONT. CONT. B & B ADDOWNCOD B & B ADDOWNCOD B & B ADDOWNCOD B & B ADDOWNCOD B & B ADDON	ПІ НІГРАЧИСЕЛА В & В & В СОИТ: ИВАИТ СОИТ: 00 0 8 & 8 АКРОМИНООО В & 8 АКРОМИНООО В & 8 РПТЕЯ В & 8		READ 19		B & B	MIPERUS CHINERSIS 'SEA GREEN' / SEA GREEN JUNIPER
0 & & 0 24" SAPREUD 19 0 & & 0 30" H1. 30 0 & & 0 36" H1. 30 0 & & 0 32" 21" 0 & STE 21" 22" 0 ASTER 500 22" 0 ASTER 21" 1" 0 ASTER 21" 21"	B & B 30° HT 30 COMD SIZE 202 CONT 11 36 CONT 11 26 D ASTER CONT 11 COND SIZE 202 CONT 11 26 D ASTER CONT 11 COND SIZE 202 CONT 11 26 DASTER CONT 11	B & B 24" SPREUD 19 B & B 30" Hr. 30 COMID SIZE 20" COMIC 11 9 COMIC 11 25 COMIC 11 22 COMIC 11 25 COMIC 11 25 COMIC 11 25 O ASTER COMIC 1	B & B 24" SPREUD 19 B & B 30" HT. 30 B & B 30" HT. 30 B & B 36" HT. 30 COMD SIZE 2000 COMT 11 56 COMT 11 26	T CONT. 5 & 8 5 & 8 5 & 8 8 & 8 8 & 8	соит. ивамт соит. В & В в & В Автомиссо В & В	ПЧ НПРЕМИСЕЛ В & В В СОИТ. ИВЕМИТ СОИТ. ИВЕМИТ СОИТ. В & В В В & В В Ф. ОО В & В В В & В В Ф. МАКОМИНОО В & В В В В В В В В В В В В В В В В В		<u>۵۱۲</u> ۶		8 & 8	UNDERVIS CHINENSIS PRITZERUMA COMPACIA' / COMPACIA PRIZER
ER <u>24' MT</u> 5 24' AT 5 2	ER 0.000 SIZE 0.00 0.000 SIZE 0.000 0.000 SIZE 0.0000 0.000 SIZE 0.0000 0.000 SIZE 0.0000 0.000 SIZE 0.0000 0.000 SIZE 0.0000 0.0000 SIZE 0.0000 0.0000 SIZE 0.0000 0.00000 0.0000 0.00000 0.0000 0.00000 0.0000 0.00000 0.000	ER 0.000 SIZE 0.00 B & B 24' HT 5 B & B 24' HT 5 B & B 24' HT 5 B & B 24' HT 30 B & B 36' HT 30 B & B 36' HT 30 COMOL SIZE 0.00 COMOL SIZE 0.00 COMOL 10 56 COMOL 10 224 COMT 11 15 COMT 15	ER 0.000 SIZE 0.000 0.000 SIZE 0.000	ССОИТ. В & В В & В &	СОИТ. ИВОМИТ СОИТ. В & В В & В В & В ОО В & В	TH INDRAWGSA B & B CONT. URBANT CONT. B & B B & B B & B D0 B & B		8		6 & 6	BUNNUM DENTATUM CHICAGO LUSIEK / CHICAGO LUSIEK MANONO
MM000 B & # B 36* Frit. 35 ER B & # B 24* SPREMO 19 B & # B 24* SPREMO 19 19 B & # B 30* Frit. 5 17 B & # B 30* Frit. 30 19 B & # B 30* Frit. 30 19 B & # B 35* Frit. 30 10 COMID SIZE 2014 10 COMIC J I 30 11 26 COMIC J I 26 24 10 ASTER COMIC J I 26 11 D ASTER COMIC J I 25 11 S000 SIZE 2014 27 2014 S000 SIZE 2014 16 11	M000 B & B 36* Hr. 35 ER B & B 24* SPREUD 19 B & B 24* SPREUD 19 B & B 30* Hr. 30 B & B 24* SPREUD 19 B & B 30* Hr. 30 COMID SIZE 202 COMIC #1 9 COMIC #1 26 DASTER COMIC #1 DASTER COMIC #1 DASTER 202 202	MM000 B & # B 36* Hr. 35 ER B & # B 24* SPREUD 19 B & # B 24* SPREUD 19 B & # B 30* Hr. 30 COMID SIZE 201 COMIC #1 3 COMIC #1 3 COMIC #1 2 D ASTER COMIC #1	MM000 B & # B 36" Hrt. 35 ER 2.4" SPREMD 39 B & # B 2.4" SPREMD 19 B & # B 36" Hrt. 30 B & # B 2.4" SPREMD 19 B & # B 36" Hrt. 30 CONIX J I 30	REEN MOUND ALDNE CURRANT CONT. B & B SRMS LLAC B & B	COVI. JARAWT COVI. B & B B & B	п нпремоски в & в соит. В & в в & в		•		B & B	асаммалын инэнция / миним эпле, титкина миниле
B & # B 30" HT: 4 MM000 B & # B 30" HT: 4 ER 30" HT: 35 21" Supplement ER B & B 24" HT: 5 21" Supplement B & B 24" Supplement 5 21" Supplement 30" HT: B & B 24" HT: 5 21" Supplement 30" HT: B & B 30" HT: 30 30" HT: 30 B & B 30" HT: 30 30" HT: 30 B & B 30" HT: 30 30" HT: 30 COUNT #1 30 30" HT: 30 ANDE COUNT #1 30 30" HT: COUNT #1 30 30" HT: 30 COUNT #1 224 224 224 COUNT #1 23 224 23" HT: SOO S.F. 7.432.5F 30" HT 30" HT	MM000 B & B 30 ⁻ HT. 4 MM000 B & B 36 ⁻ HT. 35 ER B 36 ⁻ HT. 35 B & B 24 ⁻ SPREUD 19 B & B 24 ⁻ HT. 5 B & B 36 ⁻ HT. 39 B & B 36 ⁻ HT. 39 B & B 36 ⁻ HT. 39 COMT. 11 35 COMT. 11 25 COMT. 20 COMT. 11 25 COMT. 20 COMT. 11 25 COMT. 20 COMT. 20	B & # B 30" Hit 4 MM000 B & # B 36" Hit 35 ER 2.6" Hit 35 21 ER 2.6" Hit 35 21 ER 2.4" Hit 5 21 ER 2.4" Hit 5 21 B & B 30" Hit 30 30 B & B 36" Hit 30 30 B & B 36" Hit 30 30" Hit 30 B & B 36" Hit 30 30" Hit 30 COMID 31 32" Hit 30 30" Hit B & B 36" Hit 30" Hit 30" Hit 30" Hit COMID 31" S 32" S 30" Hit 30" S COMID 31" S 32" S 30" Hit 30" S ASTER COMIC 1" S 32" S 30" Hit ASTER COMIC 1" S 32" S 30" Hit	MM000 B & B 30° Hri. 4 ER 30° Hri. 4 ER 30° Hri. 35 ER 24° Hri. 35 B & B 24° Hri. 5 B & B 24° Speculo 19 B & B 30° Hri. 30 B & B 24° Speculo 19 B & B 36° Hri. 30 COND. 81 36° Hri. B & B 36° Hri. 30 CONT. 1 3 CONT. 1 3 CONT. 1 26 CONT. 1 26 CONT. 1 224	REEN MOUND ALPINE CURRINT CONT. B & B	CONT. JROWT CONT. B & B	Π ⁴ ΗΓΡΕΨΙΝΕΕΛ CONT: JRBANT CONT. B & B		22	-	B & B	
B & B 30° HT. 22 MM000 B & B 30° HT. 4 MM01 B & B 30° HT. 4 MM01 B & B 30° HT. 4 B & B 30° HT. 5 5 CONID B & B 24° SPREND 19 B & B 30° HT. 30 30 COMID SIZE 30° HT. 30 B & B 30° HT. 30 30° HT. 30 B & B 30° HT. 30° HT. 30° HT. 30° HT. B & B 30° HT. 30° HT. 30° HT. 30° HT. B & B	0 & # B 30° Hr. 22 0 M000 B & B 30° Hr. 4 0 M000 B & B 30° Hr. 4 0 M000 B & B 30° Hr. 5 0 M000 B & B 30° Hr. 5 0 M000 B & B 24° SPREUD 19 0 B & B 24° SPREUD 19 30 0 B & B 30° Hr. 30 0 B & B 20° Hr. 30 0 B & B 20° Hr. 30 0 B & B 30° Hr. 30 0 B & B 30	0 & & B 30° Hr. 22 0 M000 B & B 30° Hr. 4 0 M000 B & B 30° Hr. 35 0 M000 B & B 36° Hr. 35 0 M000 B & B 36° Hr. 35 0 M000 B & B 30° Hr. 35 0 M000 10 22 20 0 M000 300 Hr. 1 35 0 M000 300 Hr. 1 35 0 M000 300 Hr. 1 25 0 M000 300 Hr. 1 25 0 M000 1 25 20 0 M000 1 25 20 0 M000 1 1 25 0 M000 1 1 1	8 & 8 30° HT. 22 8 & 8 30° HT. 22 8 & 8 30° HT. 4 8 & 8 30° HT. 4 9 & 8 30° HT. 35 6000 8 & 8 36° HT. 35 8 & 8 30° HT. 5 9 & 8 24" SPREUD 19 8 & 8 30° HT. 30 9 & 00000 327 30 0 & 0000 327 30 0 & 0000 327 30 0 & 0000 327 30 0 & 0000 327 30 0 & 0000 327 30 0 & 0000 327 30 0 & 0000 327 30 0 & 0000 327 30 0 & 0000 327 30 0 & 0000 327 30 0 & 0000 327 30 0 & 0000 327	аяери моимь, / анеен моимь агрике сиянант	соит. Иввиит соит.	TH HIDRWICEA B & B CONT. JARWIT CONT.	—	*		B & B	reinda autoans / common trac
B & B 30° Hr. 4 B & B 30° Hr. 22 CRN B & B 30° Hr. 35 B & B 24° Specuo 19 30 B & B 30° Hr. 30 30 B & B 30° Hr. 30 30 B & B 36° Hr. 30 30 B & B 30° Hr. 30 30 B & B 36° Hr. 30 30 B & B 36° Hr. 30 30 B & B 36° Hr. 30 30 COUR 11 30 30 COUR 11 30 30 ASTER 2000 32 30 COUR 11 30 30 State 21 22 30 COUR 11 </td <td>B & B 30° Hr. 4 B & B 30° Hr. 22 COMO 22 & 24 23 B & B 24° Hr. 30 B & B 30° Hr. 30 B & B 30° Hr. 30 B & B 30° Hr. 30 CONIC 11 25 CONIC 11 16 CONIC 11 16 CONIC 11 26 CONIC 11 25 CONIC 11 26 CONIC 11 26 CONIC 11 26 CONIC 11 27</td> <td>B & B 30° HT. 4 B & B 30° HT. 22 B & B 30° HT. 35 CDMD SZE 20° DC B & B 24° HT. 30 B & B 30° HT. 30 CONT 11 3 CONT 11 3 CONT 11 25 CONT 11 25 CONT 11 25 CONT 11 16</td> <td>B & B 30° HT. 4 B & B 30° HT. 4 B & B 30° HT. 2 B & B 30° HT. 3 COMID SIZ 21 B & B 24° Specuo 19 B & B 30° HT. 3 B & B 30° HT. 3 CONID SIZE 2012 CONIT 11 3 CONIT 11 3 CONIT 11 3 CONIT 11 3 CONIT 11 26 CONIT 11 26</td> <td></td> <td>CONT.</td> <td>TH HITDRANGEA B & B & B CONT.</td> <td></td> <td>12</td> <td>24" HT.</td> <td>CONT.</td> <td>BES агрінни "Green Mound" / Green Mound Alpine Currant</td>	B & B 30° Hr. 4 B & B 30° Hr. 22 COMO 22 & 24 23 B & B 24° Hr. 30 B & B 30° Hr. 30 B & B 30° Hr. 30 B & B 30° Hr. 30 CONIC 11 25 CONIC 11 16 CONIC 11 16 CONIC 11 26 CONIC 11 25 CONIC 11 26 CONIC 11 26 CONIC 11 26 CONIC 11 27	B & B 30° HT. 4 B & B 30° HT. 22 B & B 30° HT. 35 CDMD SZE 20° DC B & B 24° HT. 30 B & B 30° HT. 30 CONT 11 3 CONT 11 3 CONT 11 25 CONT 11 25 CONT 11 25 CONT 11 16	B & B 30° HT. 4 B & B 30° HT. 4 B & B 30° HT. 2 B & B 30° HT. 3 COMID SIZ 21 B & B 24° Specuo 19 B & B 30° HT. 3 B & B 30° HT. 3 CONID SIZE 2012 CONIT 11 3 CONIT 11 3 CONIT 11 3 CONIT 11 3 CONIT 11 26 CONIT 11 26		CONT.	TH HITDRANGEA B & B & B CONT.		12	24" HT.	CONT.	BES агрінни "Green Mound" / Green Mound Alpine Currant
COMIC 30° HI. 19 DAMAGEA B & B 35° HI. 3 COMIC 24° HI. 3 3 COMIC 24° HI. 3 3 COMIC 24° HI. 3 3 MODO B & B 30° HI. 12 B & B 30° HI. 22 4 B & B 30° HI. 22 22 MODO B & B 30° HI. 3 B & B 30° HI. 35 COMIC 24° ST 35 B & B 30° HI. 35 B & B 36° HI. 35 B & B 36° HI. 35 COMIC 11 35 B & B 36° HI. 35 B & B 36° HI. 35 COMIC 11 35 B & B 36° HI. 35 B & B 36° HI. 35 COMIC 11 35 COMIC 11 35	Develor Contr. 30° Hr. 19 Develor 8 & 8 35° Hr. 3 Contr. 24° Hr. 3 3 Contr. 24° Hr. 3 3 Motoo 8 & 8 30° Hr. 4 8 & 8 30° Hr. 4 4 8 & 8 30° Hr. 4 3 Motoo 8 & 8 30° Hr. 4 8 & 8 30° Hr. 4 3 8 & 8 30° Hr. 5 3 8 & 8 30° Hr. 5 3 9 8 8 3 4 10 5 30° Hr. 3 3 0000 8 & 8 36° Hr. 3 3 <	COMMERA B & B 36" Hr 19 DAMMERA B & B 36" Hr 3 COMME 24" Hr 3 COMME 24" Hr 30 COM 24" Hr 30 B & B 30" Hr 12 B & B 30" Hr 22 B & B 30" Hr 22 B & B 36" Hr 35 MODO B & B 36" Hr 36 B & B 30" Hr 35 COMOL 24" Strender 35 B & B 30" Hr 36 B & B 30" Hr 36 COMIL 11" 35 COMIL 11" 35 COMIL 11" 36 COMIL 11" 35	Develor Comm. Jor mr. Jor Comm. Jor mr. Jor Comm. Jor mr. Jor Comm. Jor Jor Comm. Jor Jor Comm. Jor Jor B & B Jor Jor Conn. Ji Jor Dou Jor Jor Jor Jor Jor	CONT. J SWOOTH HYDRAWSEA	CONT. J			36	.,	8 & 8	DOMEASTER ACUTPOLUS / PEXIMO COTOMEASTER
B & B 36" HT 38 DAMMERA B & B 36" HT 3 COWIT 3" "" 3 DAMMERA B & B 36" HT 3 COWIT 2" HT 3 3 COWIT 2" HT 3 3 COMIT 2" HT 3 3 COMIT 2" HT 12 3 B & B 3" HT 4 4 MODO B & B 3" HT 5 COMIT B & B 3" HT 5 COMIT B & B 3" HT 3 B & B 3" HT 3 3 COMIL B & B 3" HT 3 B & B 3" HT 3 3 COMIL B & B 3" HT 3 B & B 3" HT 3 3 COMIL B 3" HT 3 B & B 3" HT 3 3 COMIL B 3" HT 3 </td <td>0 & & B 36" HT 39 00MMEEA 8 & B 36" HT 39 00MMEEA 24" HT 30 00MMEEA 24" HT 30 00MMEEA 24" HT 30 00MMEA 8 & B 30" HT 4 00MMEA 8 & B 30" HT 4 00MMEA 8 & B 30" HT 4 00MMEA 8 & B 30" HT 5 00MMEA 11 5 5 0</td> <td>B & & B 36" HT 38 DAMMERA B & & B 36" HT 3 COWIT 3" HT 19 3 DAMMERA B & B 36" HT 3 COWIT 2" HT 3 3 COMIT 2" HT 3 3 COMIT 2" HT 3 3 COMIT 2" HT 3 3 B & B 3" HT 4 3 D AFIRA 1" 3 3 COMIT 1" 3 3 D AFIRA 1" 1" 3 D AFIRA 1" 1" 3</td> <td>0 & & B 36" HT 39 00000501 8 & B 36" HT 39 CONT 30" HT 19 0 & A 30" HT 31 0 & A 30" HT 32 0 & A 30" HT 33 0 & A 30" HT 33</td> <td>B&B CONT. J SWOOTH HTDRAWGEA</td> <td>8 & 8 CONT.</td> <td>8 & 8</td> <td></td> <td>ũ</td> <td>36" HT.</td> <td>CONT.</td> <td>DATUS AMERICAMA / AMERICAM HAZELNUT</td>	0 & & B 36" HT 39 00MMEEA 8 & B 36" HT 39 00MMEEA 24" HT 30 00MMEEA 24" HT 30 00MMEEA 24" HT 30 00MMEA 8 & B 30" HT 4 00MMEA 8 & B 30" HT 4 00MMEA 8 & B 30" HT 4 00MMEA 8 & B 30" HT 5 00MMEA 11 5 5 0	B & & B 36" HT 38 DAMMERA B & & B 36" HT 3 COWIT 3" HT 19 3 DAMMERA B & B 36" HT 3 COWIT 2" HT 3 3 COMIT 2" HT 3 3 COMIT 2" HT 3 3 COMIT 2" HT 3 3 B & B 3" HT 4 3 D AFIRA 1" 3 3 COMIT 1" 3 3 D AFIRA 1" 1" 3 D AFIRA 1" 1" 3	0 & & B 36" HT 39 00000501 8 & B 36" HT 39 CONT 30" HT 19 0 & A 30" HT 31 0 & A 30" HT 32 0 & A 30" HT 33	B&B CONT. J SWOOTH HTDRAWGEA	8 & 8 CONT.	8 & 8		ũ	36" HT.	CONT.	DATUS AMERICAMA / AMERICAM HAZELNUT
COMI: 36" Hr.: 5 B & B 36" Hr.: 36 DAMAGN B & B 36" Hr.: 36 COMI: 30" Hr.: 36 COMI: 30" Hr.: 36 COMI: 24" Hr.: 36 COMI: 24" Hr.: 30 COMI: 24" Hr.: 30 PARO 24" Hr.: 30 COMI: 24" Hr.: 30 B & B 30" Hr.: 4 DAMOO B & B 30" Hr.: 30 B & B 36" Hr.: 30 30" COMI: #1 35 30" B & B 36" Hr.: 30 30" COMI: #1 35 30" COMI: #1 35 30" B & B 36" Hr.: 35 30" COMI: #1 35 30" COMI: #1 35 30" COMI: #1 35 30"	COMT. 36" HT. 5 B & B 36" HT. 35 COMT. 30" HT. 35 COMT. 30" HT. 19 COMT. 24" HT. 19 COMT. 24" HT. 19 COMT. 24" HT. 20 COMT. 24" HT. 22 B & B 30" HT. 4 B & B 30" HT. 4 B & B 30" HT. 4 COMT. 24" HT. 22 B & B 30" HT. 35 COML. 11 B & B 30" HT. 35 COML. 11 B & B 30" HT. 35 COMT. 11 B & B 30" HT. 35 COMT. 11 B & B 30" HT. 35 COML. 11 B & B 30" HT. 35 COMT. 11 B & B 30" HT. 35 COMT. 11 COML. 22 COMT. 11 COML. 22 COMT. 11 COML. 22 COMT. 11 COML. 22 COMT. 11 COML. 22 COMT. 22 COMT. 24 COMT. 25 COMT. 25 COMT	COMI: 36° Hr.: 5 B & B 36° Hr.: 36 B & B 36° Hr.: 36 COMI: 30° Hr.: 36 COMI: 30° Hr.: 36 COMI: 30° Hr.: 36 COMI: 24° Hr.: 3 COMI: 24° Hr.: 30 PARONO 24° Hr.: 30 COMI: 24° Hr.: 30 B & B 30° Hr.: 4 MODO 24 & B 30° Hr.: 30 B & B 30° Hr.: 30 30 B & B 30° Hr.: 30 30 COMI: 8 30° Hr.: 30 COMI: 8 30° Hr.: 30 COMI: 1 30 30 COMI: 8 30° Hr.: 30 COMI: 8 30° Hr.: 30 COMI: 1 30 30 COMI: 1 30 30 <td< td=""><td>COMIT 36" HIT 5 COMIT 36" HIT 5 COMIT 30" HIT 3 COMIT 30" HIT 3 COMIT 24" HIT 3 B & B 30" HIT 4 B & B 30" HIT 4 B & B 30" HIT 4 B & B 30" HIT 3 COMID SIZE 2010 B & B 36" HIT 3 COMID SIZE 2010 COMIT 1 B & B 36" HIT 3 COMIT 1 COMIT 2 COMIT 2 COMIT</td><td>COMT. B & B COMT. COMT. B & B</td><td>CCMT.</td><td>CONT. B & B</td><td></td><td>Q</td><td></td><td>B & B</td><td>HSNAMULAR «XXXXIS XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX</td></td<>	COMIT 36" HIT 5 COMIT 36" HIT 5 COMIT 30" HIT 3 COMIT 30" HIT 3 COMIT 24" HIT 3 B & B 30" HIT 4 B & B 30" HIT 4 B & B 30" HIT 4 B & B 30" HIT 3 COMID SIZE 2010 B & B 36" HIT 3 COMID SIZE 2010 COMIT 1 B & B 36" HIT 3 COMIT 1 COMIT 2 COMIT	COMT. B & B COMT. COMT. B & B	CCMT.	CONT. B & B		Q		B & B	HSNAMULAR «XXXXIS XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
DOM B & B 24" Mit 6 COWT 36" Mit 5 B & B 36" Mit 5 DOMMERI B & B 36" Mit 19 DOMMERI B & B 36" Mit 19 DOMMERI B & B 36" Mit 10 COMT 24" Mit 10 10 COMT 24" Mit 12 12 COMT 24" Mit 12 12 MODO B & B 30" Mit 4 MODO B & B 36" Mit 5 B & B 36" Mit 5 12 COMT 24" Mit 5 12 MODO B & B 36" Mit 5 B & B 36" Mit 5 12 COMI 1" 5	0051 8 & B 24* HT. 6 CONT. 36* HT. 5 R & B 36* HT. 3 CONT. 36* HT. 3 CONT. 36* HT. 3 CONT. 24* HT. 3 R & B 30* HT. 4 R & B 30* HT. 3 R & B 30* HT. 4 R & B 30* HT. 4 R & B 30* HT. 3 R & B 30* HT. 4 R & B 30* HT. 4 R & B 30* HT. 3 R & B 30* HT. 4 R & B 40* HT. 35 R & B 40* HT. 35 R & B 30* HT. 4 R & B 40* HT. 35 R & B 30* HT. 4 R & B 40* HT. 35 R & B 40* HT.	DOM B & B 24" hit. 6 CONT. 36" hit. 5 B & B 36" hit. 5 CONT. 36" hit. 5 B & B 36" hit. 19 CONT. 24" hit. 19 CONT. 24" hit. 19 CONT. 24" hit. 10 CONT. 24" hit. 10 CONT. 24" hit. 10 B & B 30" hit. 22 B & B 30" hit. 22 B & B 30" hit. 35 COMD 227 30 COMD 30" hit. 35 B & B 30" hit. 36 COMD 30" hit. 35 CONT 1" 35	0004 8 & 8 24* HT. 6 CONT. 36* HT. 5 8 & 8 36* HT. 3 CONT. 36* HT. 3 CONT. 36* HT. 3 CONT. 24* HT. 3 8 & 8 30* HT. 4 8 & 8 30* HT. 3 8 & 8 30* HT. 3 CONT. 22 CONT. 24 8 & 8 30* HT. 3 8 & 8 30* HT. 3 CONT. 22 CONT. 24 8 & 8 30* HT. 3 8 & 8 30* HT. 3 CONT. 27 000 8 & 8 30* HT. 3 2 & 24 000 0 & 22 0 CONT. 21 1 & 3 0 CONT. 21 1	X/0 BUTTONBUSH B & B CONT. CONT. CONT. CONT. CONT. CONT. CONT. CONT. SUCOTH HTDRAWGEA B & B B & B B & B B & B B & B B & B B & B B & B	X/0 BUTTOWBUSH B & B CONT.	HMCK® BUTTOWBUSH B & B CONT. CONT. CONT. B & B B & B CONT.		11	.,	B & B	наличина осовения / впитомвиза
0041 8 & 8 36 * 111 11 0041 8 & 8 36 * 111 5 000000 8 & 8 36 * 111 5 0000000 8 & 8 36 * 111 3 0000000 8 & 8 36 * 111 3 0000000 8 & 8 36 * 111 3 000000 8 & 8 36 * 111 3 00000 24 * 111 12 0 24 * 111 12 1 24 3 0 36 * 111 3 1 24 * 111 12 1 24 3 1 24 3 1 3 3 1 3 3 1 3 3 1 3 3 1 3 3 1 3 3 1 3 3 1 3 3 1 3 3 1 3 3 1 3 3 1 3 3 1 3 3 1 3 3 1 3 3 1 3 3 <td>0541 8 & 8 36 * 111 11 0541 8 & 8 24 * 11. 6 0501 36 * 11. 36 * 11. 5 0501 36 * 11. 36 * 11. 5 0501 36 * 11. 36 * 11. 5 0501 36 * 11. 36 * 11. 5 0501 36 * 11. 36 * 11. 3 05000 8 & 8 36 * 11. 3 05 24 * 11. 12 1 1 26 36 * 11. 3 1 30 11. 3 1 30 11. 3 1 26 30 * 11. 4 1 30 11. 3 1 30 11. 3 1 30 11. 3 1 30 11. 3 1 30 11. 3 1 30 11. 3 1 30 11. 3 1 30 11. 3 1 30 11. 3 1 30 11. 3 1 30 11. 3 1 30 11.<!--</td--><td>B & B 36*1/1 11 B284 36*1/1 11 CONT 36*1/1 5 DAMAGIA B & B 24*1/1 5 DAMAGIA B & B 36*1/1 19 DAMAGIA B & B 36*1/1 19 DAMAGIA B & B 36*1/1 3 DAMAGIA B & B 30*1/1 4 DAMAGIA B & B 36*1/1 3 DAMAGIA B & B 36*1/1 3 DAMAGIA D SIZE DIT DAMAGIA F 36 DAMAGIA F 36 DAMAGIA F 5 DAMAGIA F 5 DAMAGIA F 5 DAMAGIA F 5 DAMAGIA F 5</td><td>USH B & B 36*1/1 11 USH B & B 24*1/1 6 COUT 36*1/1 36*1/1 5 DAMAGIA B & B 36*1/1 19 DAMAGIA B & B 36*1/1 19 DAMAGIA COUT 24*1/1 12 COUT 24*1/1 12 3 B & B 30*1/1 4 B & B 30*1/1 4 COMO B & B 30*1/1 4 COMO B & B 30*1/1 4 B & B 30*1/1 5 30 COMO B & B 30*1/1 5 COMO B & B 5*1/1 5 COMO B 5 5 COMO 1 5</td><td>B & B SK® BUTTONBUSH B & B CONT. CONT. CONT. B B & B CONT. B SWOOTH HTDRAWGEA</td><td>B & B XK® BUTTONBUSH B & B CONT.</td><td>8 & 8 1400K® BUTTONBUSH 8 & 8 8 CONT 6</td><td></td><td>2</td><td>30" HT.</td><td>B & B</td><td>dwothus americanus / new jersey tea</td></td>	0541 8 & 8 36 * 111 11 0541 8 & 8 24 * 11. 6 0501 36 * 11. 36 * 11. 5 0501 36 * 11. 36 * 11. 5 0501 36 * 11. 36 * 11. 5 0501 36 * 11. 36 * 11. 5 0501 36 * 11. 36 * 11. 3 05000 8 & 8 36 * 11. 3 05 24 * 11. 12 1 1 26 36 * 11. 3 1 30 11. 3 1 30 11. 3 1 26 30 * 11. 4 1 30 11. 3 1 30 11. 3 1 30 11. 3 1 30 11. 3 1 30 11. 3 1 30 11. 3 1 30 11. 3 1 30 11. 3 1 30 11. 3 1 30 11. 3 1 30 11. 3 1 30 11. </td <td>B & B 36*1/1 11 B284 36*1/1 11 CONT 36*1/1 5 DAMAGIA B & B 24*1/1 5 DAMAGIA B & B 36*1/1 19 DAMAGIA B & B 36*1/1 19 DAMAGIA B & B 36*1/1 3 DAMAGIA B & B 30*1/1 4 DAMAGIA B & B 36*1/1 3 DAMAGIA B & B 36*1/1 3 DAMAGIA D SIZE DIT DAMAGIA F 36 DAMAGIA F 36 DAMAGIA F 5 DAMAGIA F 5 DAMAGIA F 5 DAMAGIA F 5 DAMAGIA F 5</td> <td>USH B & B 36*1/1 11 USH B & B 24*1/1 6 COUT 36*1/1 36*1/1 5 DAMAGIA B & B 36*1/1 19 DAMAGIA B & B 36*1/1 19 DAMAGIA COUT 24*1/1 12 COUT 24*1/1 12 3 B & B 30*1/1 4 B & B 30*1/1 4 COMO B & B 30*1/1 4 COMO B & B 30*1/1 4 B & B 30*1/1 5 30 COMO B & B 30*1/1 5 COMO B & B 5*1/1 5 COMO B 5 5 COMO 1 5</td> <td>B & B SK® BUTTONBUSH B & B CONT. CONT. CONT. B B & B CONT. B SWOOTH HTDRAWGEA</td> <td>B & B XK® BUTTONBUSH B & B CONT.</td> <td>8 & 8 1400K® BUTTONBUSH 8 & 8 8 CONT 6</td> <td></td> <td>2</td> <td>30" HT.</td> <td>B & B</td> <td>dwothus americanus / new jersey tea</td>	B & B 36*1/1 11 B284 36*1/1 11 CONT 36*1/1 5 DAMAGIA B & B 24*1/1 5 DAMAGIA B & B 36*1/1 19 DAMAGIA B & B 36*1/1 19 DAMAGIA B & B 36*1/1 3 DAMAGIA B & B 30*1/1 4 DAMAGIA B & B 36*1/1 3 DAMAGIA B & B 36*1/1 3 DAMAGIA D SIZE DIT DAMAGIA F 36 DAMAGIA F 36 DAMAGIA F 5	USH B & B 36*1/1 11 USH B & B 24*1/1 6 COUT 36*1/1 36*1/1 5 DAMAGIA B & B 36*1/1 19 DAMAGIA B & B 36*1/1 19 DAMAGIA COUT 24*1/1 12 COUT 24*1/1 12 3 B & B 30*1/1 4 B & B 30*1/1 4 COMO B & B 30*1/1 4 COMO B & B 30*1/1 4 B & B 30*1/1 5 30 COMO B & B 30*1/1 5 COMO B & B 5*1/1 5 COMO B 5 5 COMO 1 5	B & B SK® BUTTONBUSH B & B CONT. CONT. CONT. B B & B CONT. B SWOOTH HTDRAWGEA	B & B XK® BUTTONBUSH B & B CONT.	8 & 8 1400K® BUTTONBUSH 8 & 8 8 CONT 6		2	30" HT.	B & B	dwothus americanus / new jersey tea
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L.Condenci Mukt. Color SST OD SST OD Anternaki / RED contentient R SY HI 2 SP 1 Anternaki / RED contentient R SY HI 2 SP 2 Anternaki / RED contentient R SY HI 2 SP 2 R controllers moose / sould succe Birmation R SY HI 2 2 R controllers moose / sould succe Birmation R S HI 2 2 R controllers moose / sould succe Birmation R S HI 2 2 R controllers moose / sould succe Birmation R S HI 2 2 R controllers / sould succe Birmation R S HI 2 2 R controllers / sould succe Birmation R S HI 2 2 Antelession S HI S HI 2 2 2 Antelession S HI S HI 2 2 2 Antelession HI HI 2 2 2	Labolica Maix Callolica Maix 202 202 Unrout, / RD: Onderester # # 8 30"H: 5 Auternut, / RD: Onderester # # 8 30"H: 2 Auternut, / RD: Onderester # # 8 30"H: 2 Auternut, / RD: Onderester # # 8 30"H: 2 Bebun, / Autorum # # 8 3"H: 2 Bebun, / Autorum # 8 3"H: 2 Botturu # 8 3"H:	Labolicat Manic Labolicat	Common with more concentration 0.00 0.02 0.02 0.02 Unrouk / free concentration 0.00 0.00 0.00 0.00 0.00 Metroway / free concentration 0.00 0.00 0.00 0.00 0.00 Metroway / free concentration 0.00 0.00 0.00 0.00 0.00 Metroway / webcowing free concentration 0.00 0.00 0.00 0.00 0.00 Metroway / webcowing concentration 0.00 0.00 0.00 0.00 0.00 0.00 Metroway / webcowing concentration 0.00 0.00 0.00 0.00 0.00 0.00 Metroway / webcowing concentration 0.00	Coomicon NAME UTIFOLA / RED CHAREBERIY MIERIOUM / RED CHAREBERIY MIERIOUM / RED CHAREBERIY US OCCIDENTILIS / BUTTONBUSH US OCCIDENTILIS / BUTTONBUSH US OCCIDENTILIS / BUTTONBUSH US OCCIDENTILIS / BUTTONBUSH B & B 36" HT. BERCIMA / MIERICIM HAZELNUT CONT. 30" HT. CONT. 30" HT. CONT. 30" HT. CONT. 30" HT. CONT. 30" HT. CONT. 30" HT.	Coomonous values conditions values and conditions values v	Coominou Juvier 2000. 522 June 2000. 522 United A RE Charles 20°HT. 11 AMERICUM / RED CHARGEBRIY IE & B 30°HT. 11 AMERICUM / NERICUM S' BUTTONBUSH IE & B 30°HT. 11 US OCCIDENTILUS / BUTTONBUSH IE & B 36°HT. 11 US OCCIDENTILUS / SUCOSS' / SUCORS' VIALERAUT IE & B 36°HT. 11 US OCCIDENTILUS / PEDANE COTTORUSTER IN TARAN / MAERICUM HATELAUT IE & COMT. 36°HT. 11 US OCCIDENTILUS / PEDANE COTTORUSTER II I I I I I I I I I I I I I I I I I				B & B	ERCIS CAMADENSIS / EXSTERIN REDBUD
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6' HT. 2 <u>COMMON NAME</u> R X COMMON LONA INTUANI BRILLANCE / AUTANI BRILLANCE JPRE SCPACEBERRY B & B 8' CLUMP 5 NDENOS / EASTERN REDBUD DENOS / EASTERN REDBUD LCOMMON ANUE R X COMPOLORA NUTUANI BRILLANCE / AUTANI BRILLANCE JPRE SCPACEBERRY B & B 8' CLUMP 5 LCOMMON ANUE LCOMMON ANUE LCOMMON ANUE LCOMMON ANUE R A CONTOLUS / BUTTONBUSH B & B 30' HT. 11 UT 2011 CONT. 30' HT. 25 R ACUTFOLUS / PENNIG COTINUESTER R ACUTFOLUS / PENNIG COTINUESTER R ACUTFOLUS / PENNIG COTINUESTER R ACUTFOLUS / PENNIG COTINUESTER R A CUTFOLUS / PENNIG COTINUESTER R A CUTFOLOS / PENNIG COTINESTER R A CUTFOLOS / PENNIG COTINESTER</td> <td>ENS "COLORIDO GREEN' / BLUE SPRICE ENT 2 8 & 8 6' - 8' HT. 2 <u>LOOMARIN MAME</u> 2002 SIZE 002 R X GANKIN MAM BRILIMICE APPLE SCPACEBEBRY B & B 8' CLUMP 5 ADENSS / ENSTERN RETBULD ADENSS / ENSTERN RETBUD ADENSS / ENSTERN RETBUD ADENSS / ENSTERN BRILIMICE APPLE SCPACEBEBRY B & B 8' CLUMP 5 ADENSS / ENSTERN BRILIMICE APPLE SCPACEBEBRY B & B 8' CLUMP 5 ADENSS / ENSTERN BRILIMICE APPLE SCPACEBEBRY B & B 8' CLUMP 5 ADENSS / ENSTERN RETBUD ADENSS / ENSTERN BRILIMICE APPLE SCPACEBEBRY B & B 8' CLUMP 5 ADENSS / ENSTERN BRILIMICE APPLE SCPACEBEBRY B & B 3' CLUMP 5 ADENSS / ENTERNELSHIT ADENSON MAERICAN FREEDATES B & B 3' HT. 2 B & B 36' HT. 11 B & B 36' HT. 35 R ACUTFOLUS / PEONE COTORESTER B & B 36' HT. 35 R ACUTFOLUS / PEONE COTORESTER B & B 36' HT. 35 R ACUTFOLUS / PEONE COTORESTER B & B 36' HT. 35 R ACUTFOLUS / PEONE COTORESTER B & B 36' HT. 35 R ACUTFOLUS / PEONE COTORESTER B & B 36' HT. 35 R ACUTFOLUS / PEONE COTORESTER B & B 36' HT. 35 R ACUTFOLUS / PEONE COTORESTER B & B 36' HT. 35 R ACUTFOLUS / PEONE COTORESTER B & B 36' HT. 35 R ACUTFOLUS / PEONE COTORESTER B & B 36' HT. 35 R ACUTFOLUS / PEONE COTORESTER B & B 36' HT. 35 R ACUTFOLUS / PEONE COTORESTER B & B 36' HT. 35 R ACUTFOLUS / PEONE COTORESTER B & B 36' HT. 35 R ACUTFOLUS / PEONE COTORESTER B & B 36' HT. 35 R ACUTFOLUS / PEONE COTORESTER B & B 4' HT. 35 R ACUTFOLUS / PEONE COTORESTER B & B 4' HT. 35 R ACUTFOLUS / PEONE COTORESTER B & B 4' HT. 35 R ACUTFOLUS / PEONE COTORESTER B & B 4' HT. 35 R ACUTFOLUS / PEONE COTORESTER B & B 4' HT. 35 R ACUTFOLUS / PEONE COTORESTER B & B 4' HT. 35 R ACUTFOLUS / PEONE COTORESTER B & B 4' HT. 35 R ACUTFOLUS / PEONE COTORESTER B & B 4' HT. 35 R ACUTEOUS / PEONE COTORESTER B & B 4' HT. 35 R ACUTFOLUS / PEONE COTORESTER B & B 4' HT. 35 R ACUTEOUS / PEONE ACUTEOUS B & B 4' HT. 35 R ACUTEOUS / B 4' HT. 35 R ACUTEOUS / PEONE COTORESTER B & B 4' HT. 35 R ACUTEOUS ACUTEOUS ACUTEOUS B & B 4' HT. 35 R ACUTEOUS ACUTEOUS ACUTEOUS B & B 4' HT. 35 R ACUTEOUS ACUTEOUS ACUTEOUS B & B 4' HT. 35 R</td> <td>40</td> <td>λīσ</td> <td>SIZE</td> <td>COND</td> <td></td>	BIS 'COLORIDO GREDY' / BLUE SPRICE BIS 8' - 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GRACELAND & THATCHER RESIDENTIAL COMMUNITY

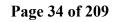
DES PLAINES, ILLINOIS



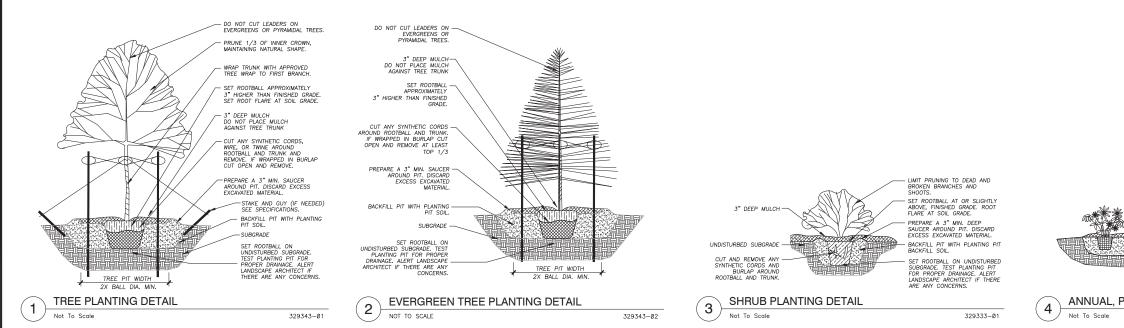
L101r



EEA — P:\23116 — Luz Associates — Grac Plotted: 7/17/23 @ 5:01pm By: sgregory & Thacker/Drawings/Graceland Thacker – Landscape Plan.dwg



Attachment 9







 - 3" DEEP MULCH WORK MULCH UNDER BRANCHES. - RAISE PLANT BED 2" ABOVE FINISH GRADE.

PREPARE ENTIRE PLANT BED TO A 8" MIN. DEPTH WITH AMENDED TOPSOIL.

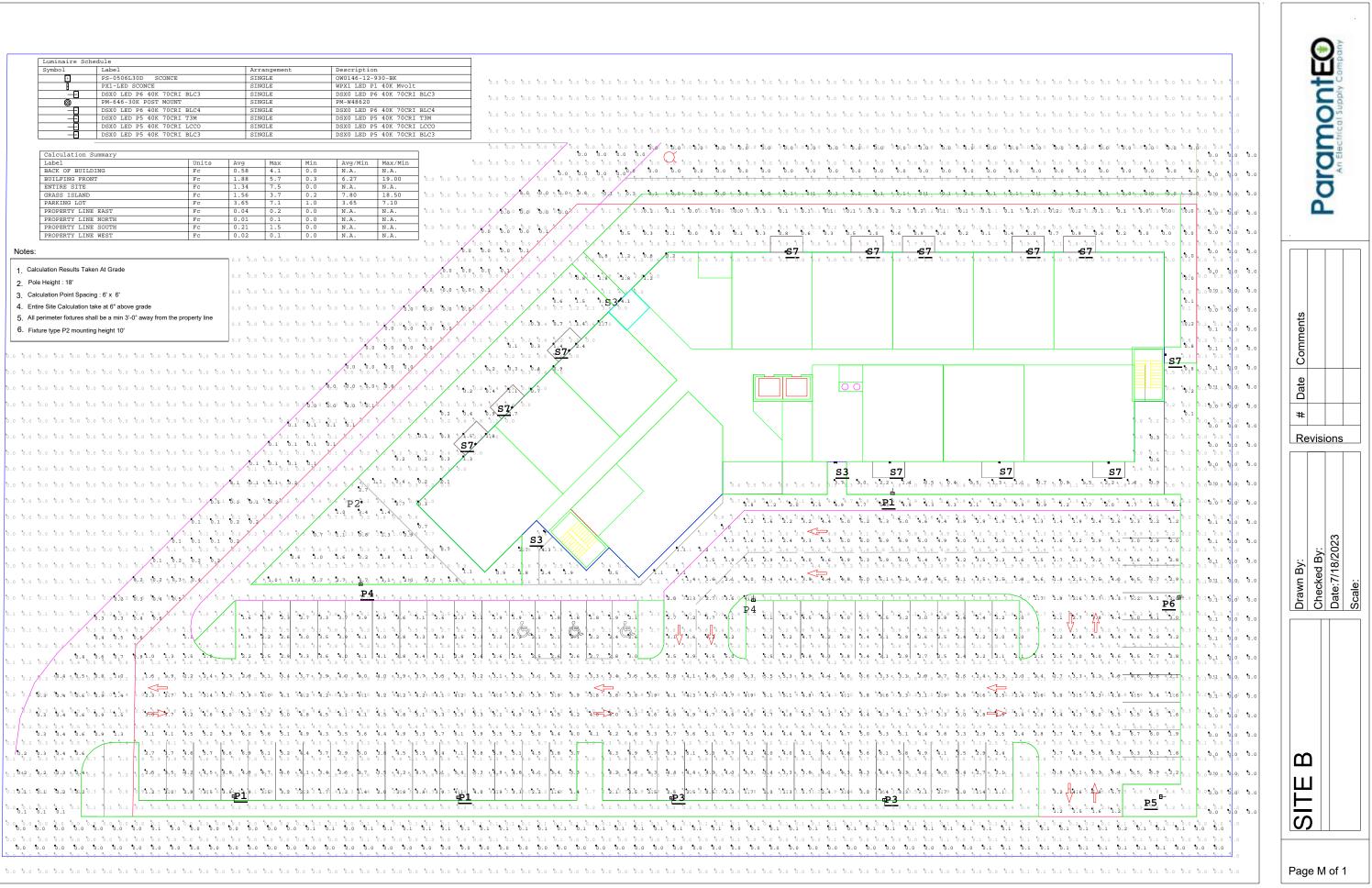
UNDISTURBED SUBGRADE. TEST PLANTING BED FOR PROPER DRAINAGE. ALERT LANDSCAPE ARCHITECT IF THERE ARE ANY CONCERNS.

ANNUAL, PERENNIAL, & GROUNDCOVER DETAIL

329301-03

Symbol	Label		Arr	rangement		Descripti	ion																
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ENTIRE SITE		Fc	1.34	7.5	0.0	N.A.	N.A.					· · · • •		• • • •	••••		• • • •				• • • • • •		• •
GRASS ISLAND PARKING LOT		Fc	1.56	3.7	0.2	7.80	18.50	0.0 0.	0 0.0 0.0	0.0 0.0 ⁴	6.6 10.0 10.4	b ^{. u} "o. d ^{u. u} b. o	°P.4 °0.1°.4°	<u>/1 %:41 %:4</u>	, u 'o . o u io. o		.o %.% %.	0 <u>.1%.1</u> 0%.1	0.1 <u>5.1</u> .	10.1 10.1 1 10	5. 0 1•1 °0.1 0 °0 1 .1	0.10.10.10	0.0 0.1
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Graceland and Thacker Development – Site B Tax Estimate*

Ellison Apartments, Des Plaines: \$5,300 per unit current taxes. Reduced to \$4,240 to reflect differences between the Ellison and the Graceland/Thacker Development.

Monarch Apartments, Des Plaines: \$5,144 per unit. Reduced \$4,115 per unit for subject site to reflect project differences.

Northgate Apartments, Wheeling: \$4,248 per unit, no reduction as fairly comparable.

Subject Site: \$4,500 per unit; translating to \$252,000 for the site. This would be an increase of \$208,000 over the current \$43,957 in taxes.

*Source: Integra Realty Resources



Not Regularly

Which site concept(s) are you commenting on? Check one

A B Both

What comments or questions do you have on proposed Site or Building

Design? MEE May Not TR

What comments or questions do you have on Neighborhood Impact from

this project? LIKE THERE SHOULD FEEL MATOR MIRON METCO

How often have you been near or by this property (within approx. three

blocks) in the past six months?

Daily

Monthly [

Weekly

General Comments/Questions

CONDO mens SRE O AREX.



В

Public Comment Card Contour Place Workshop

Which site concept(s) are you commenting on? Check one

A

Both 🚺

What comments or questions do you have on proposed Site or Building

Design? Glad to see attractive

What comments or questions do you have on Neighborhood Impact from

this project? 10 0 -dab nousing in hin 12 Meas SUDDON TIVE

How often have you been near or by this property (within approx. three

blocks) in the past six months?

Weekly [

Daily

Monthly Not Regularly

General Comments/Questions

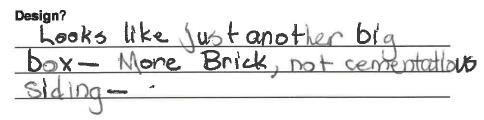
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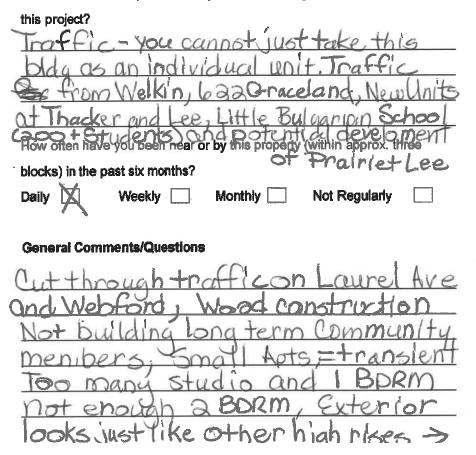
Which site concept(s) are you commenting on? Check one

A 🗌 B 🗐 Both 🕅

What comments or questions do you have on proposed Site or Building



What comments or questions do you have on Neighborhood Impact from





Which site concept(s) are you commenting on? Check one

A 🔄 B 🔄 Both 🔀

What comments or questions do you have on proposed Site or Building

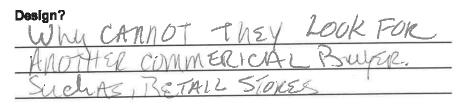
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this project? Terrible	impac	+!			
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blocks) in the p	ast six months?				
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General Com	nents/Questions	5			
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and p	buildi	turned	1 FAF	alav.	
Income	Sub Si	dized p	roper	fres.	



Which site concept(s) are you commenting on? Check one



What comments or questions do you have on proposed Site or Building



What comments or questions do you have on Neighborhood Impact from

this project? 100 KILD

How often have you been near or by this property (within approx. three

blocks) in the past six months?

Daily

Monthly

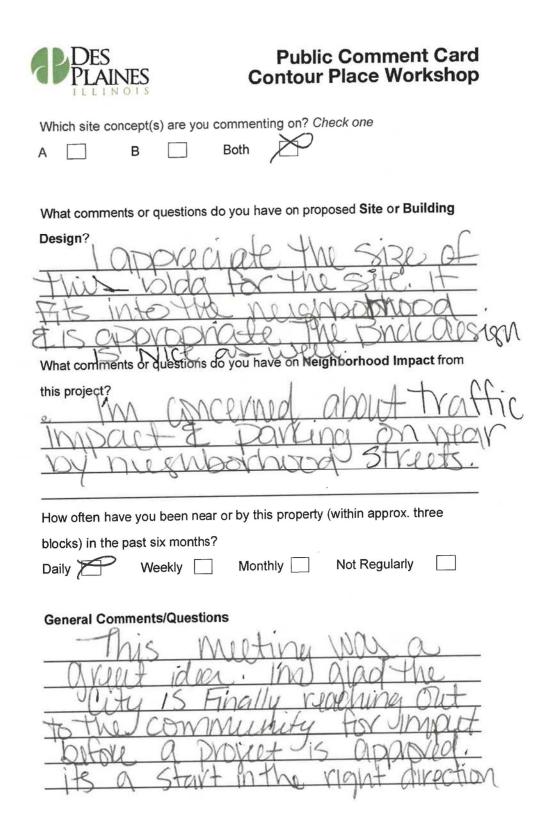
General Comments/Questions

Weekly

WOULD NOT WANT TO SEE PROISET APPROVED This

 \square

Not Regularly





Which site concept(s) are you commenting on? Check one

A B Both

What comments or questions do you have on proposed Site or Building

Design? WHY MORE APARTMENTS? WHY NOT CONDOS OF TOWNHOMMES? VOI TEANSIGNT TANANTS

What comments or questions do you have on Neighborhood Impact from

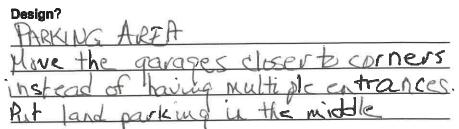
this project? TAIS ADJULT BACKS UP TO THE NEW DULCAPIAN SCHOOL WHILH EXPLOTS ~ 200 STUNGNES DAILY. GO LIGHT THRANGH THE KOUIGH BOAHOOD. THE TRAHIL IMPACT OF THE WELKING COLLEPACELIND THE SCHOOL How often have you been near or by this property (within approx. three blocks) in the past six months? Monthly Weekly Not Regularly Daily **General Comments/Questions** AND NONTHIS WILL BE SILMFICANT TAIS WAS A COMPLETELY INALLACTION WAY TO Dava LO1413 AUGGIT THE TACT THE 4 AUGUNATIONS AND JAKEN COUD 4 tol NAT EUNELIONE



Which site concept(s) are you commenting on? Check one

Both A B

What comments or questions do you have on proposed Site or Building



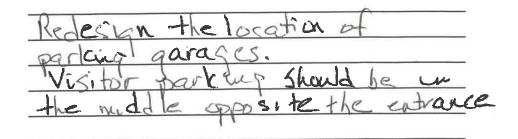
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this project?	
FILTERING & EXIST	ING
Graceland is one	e way street
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don't need to give	an option to turn
the wrong way,	
the wrong way,	V

How often have you been near or by this property (within approx. three

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Daily		Weekly	Monthly	Not Regularly	

General Comments/Questions





Which site concept(s) are you commenting on? Check one

A

В

Both 📈

What comments or questions do you have on proposed Site or Building

Moe brick please

What comments or questions do you have on Neighborhood Impact from

this project?

te have too many apartments currently & complex onsider

How often have you been near or by this property (within approx. three

blocks) in the past six months?

Daily

Week

Weekly Monthly 🗌 Not Regularly

General Comments/Questions

appriments, we are <0 tur rends change



Which site concept(s) are you commenting on? Check one

Α		В		Both	X
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What comments or questions do you have on proposed Site or Building Design?

What comments or questions do you have on Neighborhood Impact from

this project?

APPEARS TO BE SIMILAR USE TYPE TO OTHER EXISTING PROPERTIES WHAT IS # OF DWEILINGS UNITS / ACRE FOR THIS SITE AND EXISTING AD, ACENT STE How often have you been near or by this property (within approx. three blocks) in the past six months? Monthly Not Regularly Daily Weekly

General Comments/Questions

(1) HOW MANY GUEST PARKING SPACES ARE PROVIDED (2) PERCENT OF IMPERVIOUS CONERAGE; WHERE WILL STUEM WATER DETENTION BE PROVIDED (3) FOR SALE OF - ROLTAL



Which site concept(s) are you commenting on? Check one



What comments or questions do you have on proposed Site or Building WILKING Design? 70 What comments or questions do you have of Neighborhood Impact from this project? Ø How often have you been near or by this property (within approx. three blocks) in the past six months? Monthly Weekly Not Regularly Daily [**General Comments/Questions**

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Ulterran

Samantha Redman

From:	Maureen Stern
Sent:	Friday, June 9, 2023 10:28 AM
То:	Samantha Redman; John Carlisle
Subject:	FW: Feedback for Des Plaines, IL

This came in through the feedback button on the website. See below.

From: Media Services <media@desplaines.org> Sent: Friday, June 9, 2023 10:24 AM To: Maureen Stern <mstern@desplaines.org> Subject: FW: Feedback for Des Plaines, IL

From: Des Plaines, IL <<u>media@desplaines.org</u>>
Sent: Friday, June 9, 2023 10:23:44 AM (UTC-06:00) Central Time (US & Canada)
To: Media Services <<u>media@desplaines.org</u>>
Subject: Feedback for Des Plaines, IL

You have received this feedback from

following page:

https://www.desplaines.org/access-your-government/boards-and-commissions/planning-and-zoning-board

My concern is the development of the saw company at Thacker and Graceland. I attended the meeting on June 6. I don't think the city realizes the total picture. I would like to see another meeting set with more notice given to residents in the area. There are more residents who were not advised in writing who do not have the Des Plaines internet access We don't need more apts especially if they accept vouchers. The complex will be mostly vouchers. . parking is not adequate now. The argument that most potential renters will not have cars is unrealistic. There is nothing close by - a car will be necessary for shopping. Argument that it is close to the train is unrealistic. Most young people work from home and the walk to the train is not that convenient especially in bad weather . I did it for 10 years. There is nothing in Des Plaines close by to entice young people to live here. There were board members that get it. The demeanor of one disappointing-like he didn't care I neglected to get names unfortunately. I remember faces Shame Des Plaines headed in wrong direction with apts

From:	
Sent:	Tuesday, June 13, 2023 3:48 PM
То:	Andrew Goczkowski; Jessica Mastalski; Mark Lysakowski; Colt Moylan; Sean Oskerka
Cc:	Samantha Redman; Dick Sayad; Carla Brookman; mwalster@desplaines.org; Patricia Smith; Mike Charewicz; jcatallano@desplaines.org; rfowler@desplaines.org; Rhoferr@desplaines.org; psaletnik@desplaines.org; Jszabo@desplaines.org; Cveremis@desplaines.org; tweaver@desplaines.org; Joanne Mendoza
Subject: Attachments:	Fw: Graceland and Thacker Maybe Someone will respond IMG_6425.PNG

Good Afternoon......I am writing this for myself, and other residents in the area. I have not gotten one response regarding previous emails. Very disappointing.

I can only hope this development is for reconsideration. There is no parking. Not a good location for apartments, especially since the new downtown apartments are not even rented. Knowing how the drill is, this complex will become low income housing which will destroy Des Plaines. Common sense would tell you this. I'd like to see Des Plaines work harder to build up retail, rather than apartments. All of us would. I take advantage of At7 and the Theatre.

There is not enough retail around to even entice people to live here. I have to drive outside of Des Plaines for most shopping.

Developer's arguments:

Young people want to live near the train. Downtown Des Plaines is different and they can't even rent those apartments close by. This is not Downtown Chicago where everything is in walking distance (restaurants, stores, drug stores, etc.) I traveled over 10 years to the train from this location, and during bad weather - not an easy hike. Even as he says young people don't need cars, there is no shopping convenient here. THEY WILL NEED CARS -- and the parking situation. Parking is limited in this location as it is.

He is never going to get the high rents he thinks he is - very delusional thinking........So lower the rents and accept vouchers. I'm beginning to think that's the plan

DO NOT APPROVE THEIR BUILDING PLANS

Redraw the plans of the building Push back the building so there is a parking lot in front of the proposed building on Graceland.

Make the building residents 50 years and older -- there are more elderly people who would be interested Do condos/townhouses - people who would have more of a personal stake in Des Plaines.

But, I'm not hopeful as from experience (I worked for attorneys and a lobbyist), and usually by the time residents are notified - too late. Just like the Journal site (more apartments) I hope Des Plaines wakes up.

I would like information to pass on to the residents in the area.

----- Forwarded Message -----

To: "soskerka@desplaines.org" <soskerka@desplaines.org> Cc: "dsayad@desplaines.og" <dsayad@desplaines.og> Sent: Friday, June 9, 2023 at 12:49:13 PM CDT Subject: Graceland and Thacker

Good Afternoon

I sent the following email. FYI

You can see how upset some of us are about this development and the ramifications that are in the future It's not a good location with the arguments the developer had didn't fly

I'm not sure if you were at the meeting. Missed introductions if there were any.

I don't think residents given enough time to understand I had reached out awhile back to someone in Des Plaines. Never got a reply.

I hope you can do something More rentals Not a good thing for Des Plaines. Hoping city wakes up

Condos/townhomes would be

Mr Sayad - I think you were at this meeting ?

Thank you

Sent from my iPhone

From:	Des Plaines, IL <media@desplaines.org></media@desplaines.org>
Sent:	Tuesday, June 20, 2023 9:58 AM
То:	Samantha Redman
Subject:	*NEW SUBMISSION* Contour Place Public Input

Contour Place Public Input

Submission #:	2513920
IP Address:	149.75.158.58
Submission Date:	06/20/2023 9:57
Survey Time:	3 minutes, 29 seconds

You have a new online form submission. Note: all answers displaying "*****" are marked as sensitive and must be viewed after your login.

Read-Only Content

Section Break

Which site concept(s) are you commenting on?

Both

What comments or questions do you have on the proposed Site or Building Design

please ignore the NIMBYs and permit this and all other residential housing projects.

What comments or questions do you have on Neighborhood Impact from this project?

Des Plaines is great am I am excited to share it with more people

How often have you been near or by this property (within approx. three blocks) in the past six months?

Daily

General Comments/Questions

I encourage displays to approve this and all residential building projects. there are a couple of NIMBYs running around the neighborhood complaining about this and I think you should ignore them. building more housing will help. Des Plaines and make it a more robust and vibrant community. I live very close to the site, and I look forward to new neighbors. Nick Hantel 719 Laurel Ave

Email (optional)

Read-Only Content

Thank you, Des Plaines, IL

From:	
Sent:	Tuesday, June 20, 2023 10:01 AM
То:	Andrew Goczkowski; Jessica Mastalski; Mark Lysakowski; Colt Moylan; Sean Oskerka
Cc:	Samantha Redman; Dick Sayad; Carla Brookman; mwalster@desplaines.org; Patricia Smith; Mike
	Charewicz; jcatallano@desplaines.org; rfowler@desplaines.org; Rhoferr@desplaines.org;
	psaletnik@desplaines.org; Jszabo@desplaines.org; Cveremis@desplaines.org;
	tweaver@desplaines.org; Joanne Mendoza
Subject:	Re: Graceland and Thacker

I was at the city council meeting last night. I didn't expect to be able to speak. I wasn't prepared and left out my main concern about so many rentals in Des Plaines. This email is repetitive to my original email below.

Also I'm speaking for residents in the area. Not just myself

I dread that Des Plaines is going down this path. I think in the long run federal aid (we are not stupid people who don't realize this is behind all this) given to the city for these so called rentals will not be worth it in the end. Build condos or townhouses where people will have a personal and financial stake in their property

I had asked the developer at the June 6 meeting about what happens when these apts cannot be rented.asked about vouchers. He then stated they cannot turn away voucher requests. This development will end up be low income housing.

With the huge rental buildings downtown and the Webford project (more apts) Des Plaines will end up being a disaster down the road

I'd like to see more retail. I have a granddaughter who I would love to take downtown and see shops catered to kids.....not high end stores. There are a lot of kids in Des Plaines Choo Choo is one option but shame it's so small. Sometimes you can't get in.

I think you are making a mistake not agreeing to that gentleman's proposal re snack shop whatever.even if not a sit down restaurant. Des Plaines is not a high end city. Seems you lost many opportunities with these restaurants going other places. A good hamburger place would have been great

You made a big mistake about the dispensary. If In the right location downtown you lost a lot of money. There are a lot of people who have medical cards and recreation Now Give their money to Niles and Rosemont

Below is my original email sent to as many people I could find. I hope Mr Mendoza forwarded it to the zoning board. No one could give me any contact information for the Board

Could someone confirm date of the next zoning meeting. We were told June 25.....which is a Sunday

Thank you for your consideration

Sent from Yahoo Mail for iPhone

1

Good Afternoon......I am writing this for myself, and other residents in the area. I have not gotten one response regarding previous emails. Very disappointing.

I can only hope this development is for reconsideration. There is no parking. Not a good location for apartments, especially since the new downtown apartments are not even rented. Knowing how the drill is, this complex will become low income housing which will destroy Des Plaines. Common sense would tell you this. I'd like to see Des Plaines work harder to build up retail, rather than apartments. All of us would. I take advantage of At7 and the Theatre.

There is not enough retail around to even entice people to live here. I have to drive outside of Des Plaines for most shopping.

Developer's arguments:

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He is never going to get the high rents he thinks he is - very delusional thinking.......So lower the rents and accept vouchers. I'm beginning to think that's the plan

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Make the building residents 50 years and older -- there are more elderly people who would be interested Do condos/townhouses - people who would have more of a personal stake in Des Plaines.

But, I'm not hopeful as from experience (I worked for attorneys and a lobbyist), and usually by the time residents are notified - too late. Just like the Journal site (more apartments) I hope Des Plaines wakes up.

I would like information to pass on to the residents in the area.

---- Forwarded Message -----

Sent: Friday, June 9, 2023 at 12:49:13 PM CDT Subject: Graceland and Thacker

Good Afternoon

I sent the following email. FYI

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I'm not sure if you were at the meeting. Missed introductions if there were any.

I don't think residents given enough time to understand I had reached out awhile back to someone in Des Plaines. Never got a reply.

I hope you can do something More rentals Not a good thing for Des Plaines. Hoping city wakes up

2

Condos/townhomes would be

Mr Sayad - I think you were at this meeting ?

Thank you

Sent from my iPhone

From:	Des Plaines, IL <media@desplaines.org></media@desplaines.org>
Sent:	Monday, June 26, 2023 4:01 PM
То:	Samantha Redman
Subject:	*NEW SUBMISSION* Contour Place Public Input

Contour Place Public Input

Submission #:	2528158
IP Address:	99.93.196.68
Submission Date:	06/26/2023 4:01
Survey Time:	55 seconds

You have a new online form submission. Note: all answers displaying "*****" are marked as sensitive and must be viewed after your login.

Read-Only Content

Section Break

Which site concept(s) are you commenting on?

Both

What comments or questions do you have on the proposed Site or Building Design

not a good option in DP. there are so many vacant rentals already

What comments or questions do you have on Neighborhood Impact from this project?

How often have you been near or by this property (within approx. three blocks) in the past six months?

Weekly

General Comments/Questions

Email (optional)

Read-Only Content

Thank you, Des Plaines, IL

From:	Des Plaines, IL <media@desplaines.org></media@desplaines.org>
Sent:	Wednesday, July 5, 2023 12:53 PM
То:	Samantha Redman
Subject:	*NEW SUBMISSION* Contour Place Public Input

Contour Place Public Input

Submission #:	2546548
IP Address:	73.208.12.61
Submission Date:	07/05/2023 12:53
Survey Time:	11 minutes, 5 seconds

You have a new online form submission. Note: all answers displaying "*****" are marked as sensitive and must be viewed after your login.

Read-Only Content

Section Break

Which site concept(s) are you commenting on?

Both

What comments or questions do you have on the proposed Site or Building Design

Site A - I feel the open land parking lots should be moved to the middle of the area where the garage buildings are. Moving the garage buildings over towards the street is better. We don't need 4 exits from these parking areas with one being so close to the curve in the street on Thacker by the railroad tracks where vision could be blocked. The other exit on Graceland is giving the cars the opportunity to turn left on a one way street.

What comments or questions do you have on Neighborhood Impact from this project?

Parking will become an issue if the residence of the complex have to pay for a parking space. Each unit should already have that built into their rent. Visitor parking should be closer to the main entrance and enough to cover visitors at an equal amount since street parking is very limited.

How often have you been near or by this property (within approx. three blocks) in the past six months?

Weekly

General Comments/Questions

Parking redesign should be investigated as previously noted. For the site A building there are less 2 bedroom units per floor than in the Site B design. Considere making 2 more 2 bedroom units perform at the middle of each floor and eliminate 3 one bedroom units and one studio. Also a more define entrance should be visible at the corner of Graceland and Thacker even though this is not the main entrance. For Site B also a more define entrance should be visible along Graceland. Concerns over at Site B is Oakwood Street capable of handling all this new traffic and parking?

Email (optional)

Read-Only Content

Thank you, Des Plaines, IL

From:	Des Plaines, IL <media@desplaines.org></media@desplaines.org>
Sent:	Wednesday, July 5, 2023 7:11 PM
То:	Samantha Redman
Subject:	*NEW SUBMISSION* Contour Place Public Input

Contour Place Public Input

Submission #:	2547791
IP Address:	76.136.228.9
Submission Date:	07/05/2023 7:11
Survey Time:	6 minutes, 59 seconds

You have a new online form submission. Note: all answers displaying "*****" are marked as sensitive and must be viewed after your login.

Read-Only Content

Section Break

Which site concept(s) are you commenting on?

Site B

What comments or questions do you have on the proposed Site or Building Design

Should redevelop site with Townhome/Condos only with on-site.parking only

What comments or questions do you have on Neighborhood Impact from this project?

Parking is presently severely limited in the neighborhood at the time being! An apartment building would ONLY SERVE TO IMPACT parking and MAKE IT MUCH WORSE!

How often have you been near or by this property (within approx. three blocks) in the past six months?

Daily

General Comments/Questions

Develop Site B with Condo/Townhouse ONLY with on-site parking

Email (optional)

Read-Only Content

Thank you, **Des Plaines, IL**

From:	Des Plaines, IL <media@desplaines.org></media@desplaines.org>
Sent:	Monday, July 10, 2023 4:46 PM
То:	Samantha Redman
Subject:	*NEW SUBMISSION* Contour Place Public Input

Contour Place Public Input

Submission #:	2557607
IP Address:	73.45.169.154
Submission Date:	07/10/2023 4:46
Survey Time:	25 minutes, 22 seconds

You have a new online form submission. Note: all answers displaying "*****" are marked as sensitive and must be viewed after your login.

Read-Only Content

Section Break

Which site concept(s) are you commenting on?

Both

What comments or questions do you have on the proposed Site or Building Design

i'm a owner of 915 Graceland ave. I don't agree with new zoning: R-4 Central Core Residential Case number: 23-040-MAP.

What comments or questions do you have on Neighborhood Impact from this project?

No more rentals in this neigborhood!! We already have 136 rentals right one block douwn!!Maybe more at Ellison Apartaments. This is a quite and peacefull area!!

How often have you been near or by this property (within approx. three blocks) in the past six months?

Daily

General Comments/Questions

Take in consideration our concern about rentals. I would rather see condos/townhomes where people have a personal and financial stake in their property

Email (optional)

Read-Only Content

Thank you, Des Plaines, IL

From:	Des Plaines, IL <media@desplaines.org></media@desplaines.org>
Sent:	Thursday, July 13, 2023 9:52 AM
То:	Samantha Redman
Subject:	*NEW SUBMISSION* Contour Place Public Input

Contour Place Public Input

Submission #:	2564260
IP Address:	75.58.27.199
Submission Date:	07/13/2023 9:52
Survey Time:	4 minutes, 11 seconds

You have a new online form submission. Note: all answers displaying "*****" are marked as sensitive and must be viewed after your login.

Read-Only Content

Section Break

Which site concept(s) are you commenting on?

Both

What comments or questions do you have on the proposed Site or Building Design

Don't build these, too many buildings to close to each other

What comments or questions do you have on Neighborhood Impact from this project?

Do we need extra rentals in Des Planes?

How often have you been near or by this property (within approx. three blocks) in the past six months? Daily

General Comments/Questions

Please build your buildings somewhere else

Email (optional)

Read-Only Content

Thank you, Des Plaines, IL

From:	Des Plaines, IL <media@desplaines.org></media@desplaines.org>
Sent:	Wednesday, July 12, 2023 5:49 PM
То:	Samantha Redman
Subject:	*NEW SUBMISSION* Contour Place Public Input

Contour Place Public Input

Submission #:	2563308
IP Address:	75.58.27.199
Submission Date:	07/12/2023 5:48
Survey Time:	2 minutes, 11 seconds

You have a new online form submission. Note: all answers displaying "*****" are marked as sensitive and must be viewed after your login.

Read-Only Content

Section Break

Which site concept(s) are you commenting on?

Both

What comments or questions do you have on the proposed Site or Building Design

We don't need this extra buildings and noises over here. Its nice place to do the park .

What comments or questions do you have on Neighborhood Impact from this project?

will be any voting on this project? Many neighbors don't like this idea.

How often have you been near or by this property (within approx. three blocks) in the past six months? Daily

General Comments/Questions

Move your project to more open area

Email (optional)

Read-Only Content

Thank you, Des Plaines, IL

From:	Des Plaines, IL <media@desplaines.org></media@desplaines.org>
Sent:	Tuesday, July 18, 2023 8:11 AM
То:	Samantha Redman
Subject:	*NEW SUBMISSION* Contour Place Public Input

Contour Place Public Input

Submission #:	2573662
IP Address:	173.15.39.78
Submission Date:	07/18/2023 8:10
Survey Time:	6 minutes, 45 seconds

You have a new online form submission. Note: all answers displaying "*****" are marked as sensitive and must be viewed after your login.

Read-Only Content

Section Break

Which site concept(s) are you commenting on?

Both

What comments or questions do you have on the proposed Site or Building Design

What comments or questions do you have on Neighborhood Impact from this project?

How will this project affect traffic patterns, parking for all the units and emergency vehicles access.

How often have you been near or by this property (within approx. three blocks) in the past six months?

Daily

General Comments/Questions

How many units are subject to low income tenants

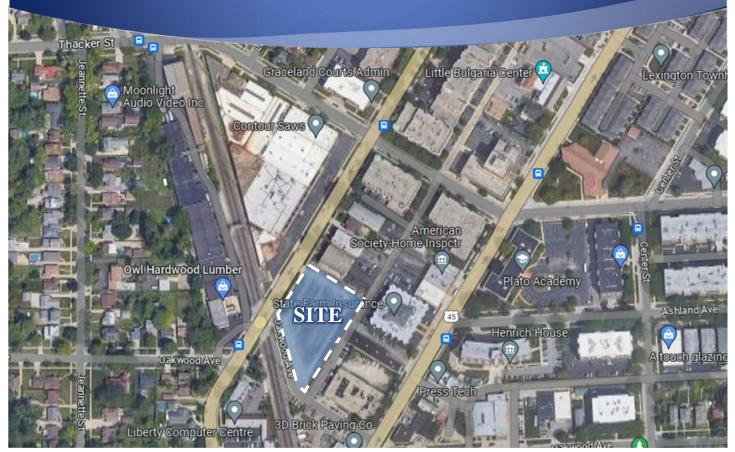
Email (optional)

Read-Only Content

Thank you, Des Plaines, IL

Traffic Impact Study Proposed Residential Development

Des Plaines, Illinois



Prepared For:

Luz and Associates #1 LLC



1. Introduction

This report summarizes the methodologies, results, and findings of a traffic impact study conducted by Kenig, Lindgren, O'Hara, Aboona, Inc. (KLOA, Inc.) for a proposed residential development to be located in the northeast corner of the intersection of Graceland Avenue with Oakwood Avenue in Des Plaines, Illinois. The site which is currently utilized as the parking lot for Contour Saws Inc., will be redeveloped to provide 56 apartment units and 64 parking spaces with access off Oakwood Avenue and the existing alley to the east of the site.

The purpose of this study was to examine background traffic conditions, assess the impact that the proposed development will have on traffic conditions in the area, and determine if any roadway or access improvements are necessary to accommodate traffic generated by the proposed development. **Figure 1** shows the location of the site in relation to the area roadway system. **Figure 2** shows an aerial view of the site.

The sections of this report present the following:

- Existing roadway conditions
- A description of the proposed development
- Directional distribution of the development traffic
- Vehicle trip generation for the development
- Future traffic conditions including access to the development
- Traffic analyses for the weekday morning and evening peak hours
- Recommendations with respect to adequacy of the site access and adjacent roadway system
- Evaluation of the adequacy of the parking supply

Traffic capacity analyses were conducted for the weekday morning and evening peak hours for the following conditions:

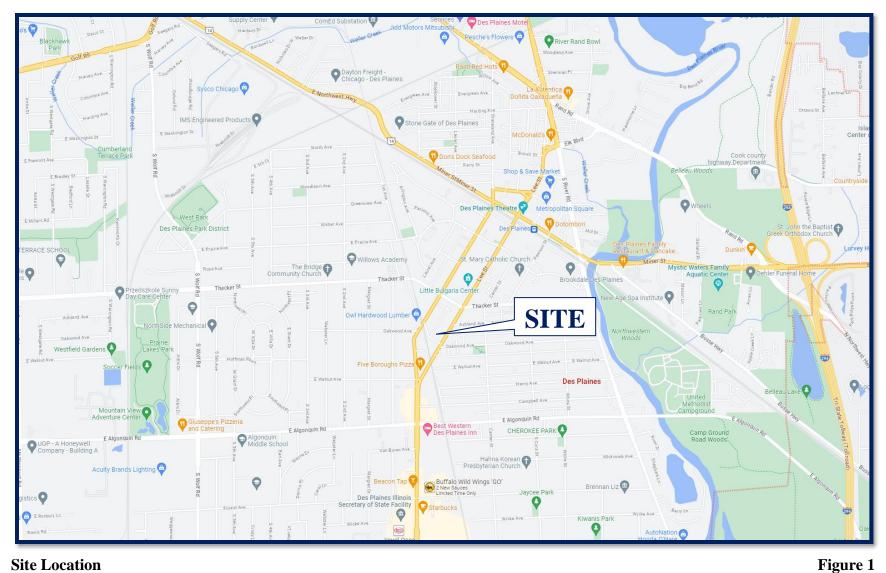
- 1. Existing Conditions Analyzes the capacity of the existing roadway system using existing peak hour traffic volumes in the surrounding area.
- 2. Projected Conditions Analyzes the capacity of the future roadway system using the traffic volumes that include the existing traffic volumes increased by an ambient growth factor and the traffic estimated to be generated by the proposed development.



Proposed Residential Development Des Plaines, Illinois

Attachment 13

1



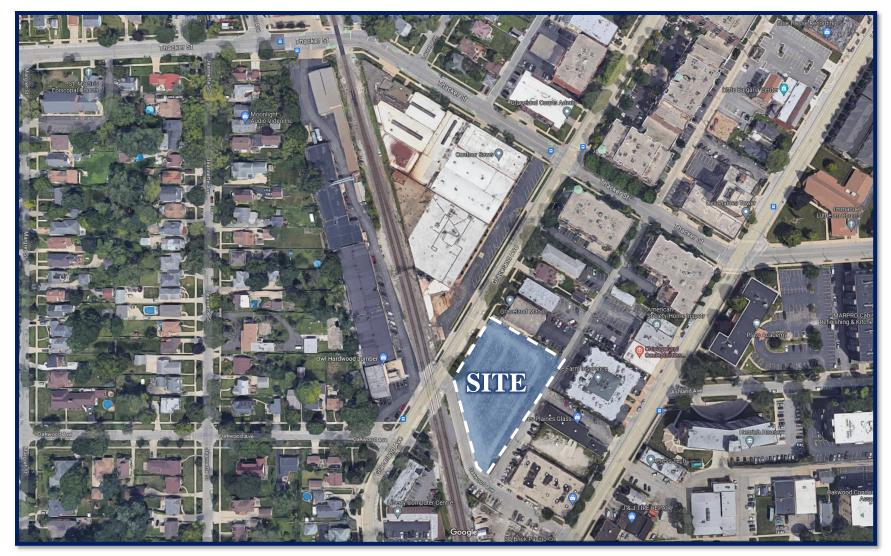
Site Location

Proposed Residential Development Des Plaines, Illinois



Attachment 13

Page 65 of 209



Aerial View of Site

Figure 2

Proposed Residential Development Des Plaines, Illinois



Attachment 13

Page 66 of 209

2. Existing Conditions

The following provides a description of the geographical location of the site, physical characteristics of the area roadway system including lane usage and traffic control devices, and existing peak hour traffic volumes.

Site Location

The site, which is currently utilized as the parking lot for Contour Saws Inc., is bounded by Graceland Avenue to the west, an alley to the east, Oakwood Avenue to the south, and Graceland Manor apartments to the north. Land uses in the vicinity of the site are primarily residential with commercial land uses along Lee Road.

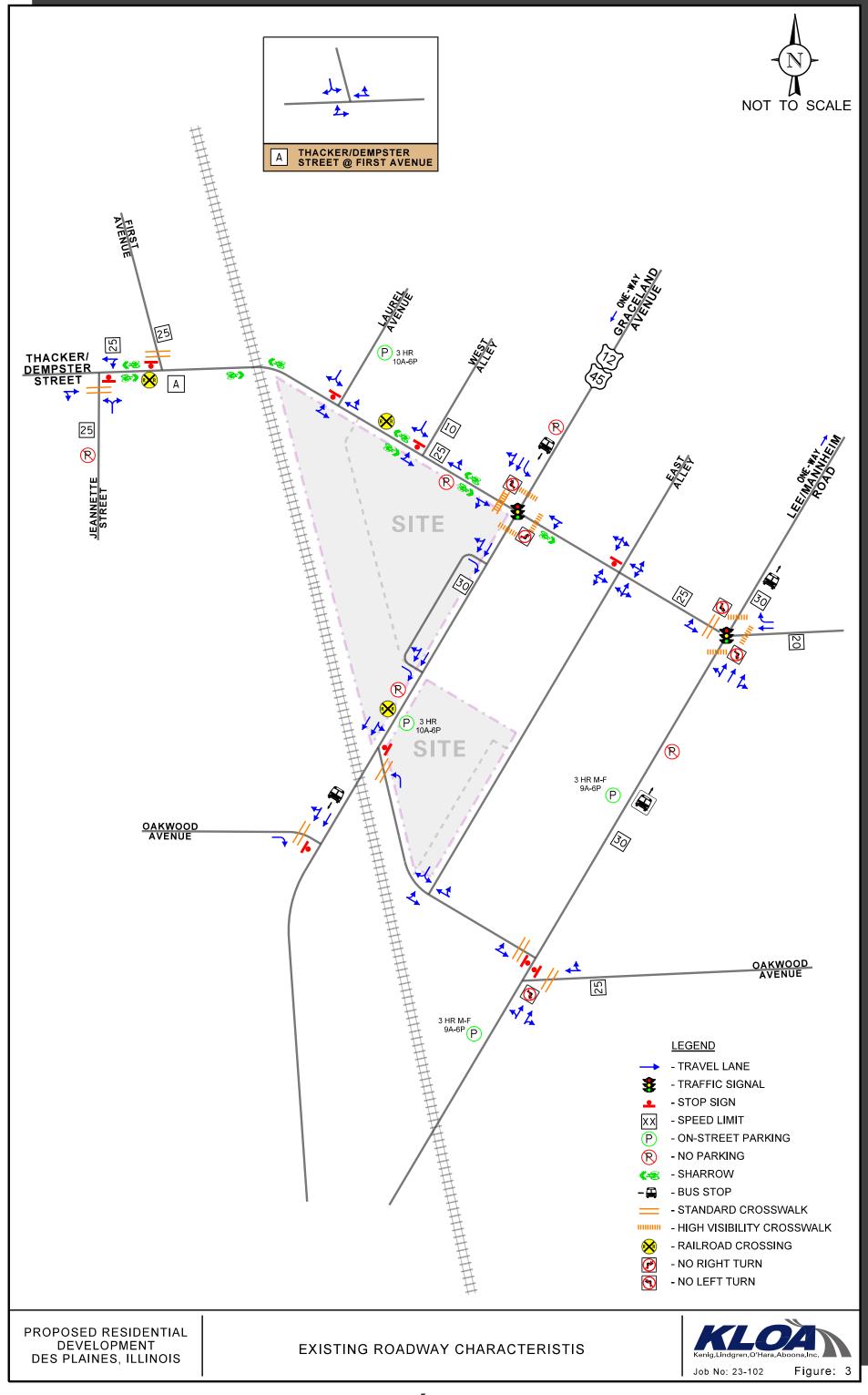
Existing Roadway System Characteristics

The characteristics of the existing roadways near the proposed development are described below and illustrated in **Figure 3**.

Thacker Street is generally an east-west major collector roadway that provides one travel lane in each direction in the vicinity of the site. At its signalized intersection with Lee Road, Thacker Street provides a shared left-turn/through lane on the eastbound approach and a through lane and an exclusive right-turn lane on the westbound approach. High visibility crosswalks are provided on the east, north, and south legs of this intersection and a standard style crosswalk is provided on the west leg. Pedestrian signals are provided on all four legs of this intersection. At its signalized intersection with Graceland Avenue, Thacker Road provides a shared through/right-turn lane on the eastbound approach and a shared left-turn/through lane on the westbound approach. High visibility crosswalks and pedestrian signals are provided on all four legs of this intersection. At its unsignalized intersections with Jeannette Street, First Avenue, Laurel Avenue, and the two alleys, Thacker Street does not provide any exclusive turn lanes. Thacker Street is under the jurisdiction of the City of Des Plaines, carries an Annual Average Daily Traffic (AADT) volume of approximately 8,900 vehicles (IDOT 2022), and has a posted speed limit of 25 miles per hour.

Proposed Residential Development Des Plaines, Illinois





Graceland Avenue (U.S. 45) is a northeast-southwest, other principal arterial roadway that is one way in the southbound direction in the vicinity of the site providing two travel lanes. At its signalized intersection with Thacker Street, Graceland Avenue provides an exclusive left-turn lane, a through lane, and a shared through/right-turn lane on the southbound approach. At its unsignalized north intersection with Oakwood Avenue, Graceland Avenue provides a through lane and a shared left-turn/through lane on the southbound approach. At its unsignalized south intersection with Oakwood Avenue, Graceland Avenue provides a through lane and a shared left-turn/through lane on the southbound approach. At its unsignalized south intersection with Oakwood Avenue, Graceland Avenue provides a through lane and a shared through/right turn lane on the southbound approach. Graceland Avenue is under the jurisdiction of the Illinois Department of Transportation (IDOT), carries an AADT volume of approximately 17,000 vehicles (IDOT 2021), is not classified as a Strategic Regional Arterial (SRA), and has a posted speed limit of 30 miles per hour.

Lee Road is a northeast-southwest, other principal arterial roadway that is one way in the northbound direction in the vicinity of the site providing two travel lanes. At its signalized intersection with Thacker Street, Lee Road provides a shared left-turn/through lane, a through lane, and a shared through/right-turn lane on the northbound approach. At its unsignalized intersection with Oakwood Avenue, Lee Road provides a shared left-turn/through lane and a shared through/right-turn lane on the northbound approach. Lee Road is under the jurisdiction of IDOT, carries an AADT volume of 5,600 vehicles (IDOT 2021), is not classified as an SRA, and has a posted speed limit of 30 miles per hour.

Oakwood Avenue is an east-west, local roadway that extends from 3rd Avenue to its terminus at River Road providing one travel lane in each direction. At its unsignalized north "T" intersection with Graceland Avenue, Oakwood Avenue provides a left-turn lane on the westbound approach. A standard style crosswalk is provided on the east leg of this intersection. At its unsignalized south "T" intersection with Graceland Avenue, Oakwood Avenue provides a right-turn lane on the eastbound approach. A standard style crosswalk is provided on the west leg of this intersection. At its unsignalized south "T" intersections with the alley and Lee Street, Oakwood Avenue provides a shared left-turn/through lane on the eastbound approach and a shared through/right-turn lane on the westbound approach. Standard style crosswalks are provided on the east and west legs of the intersection of Oakwood Avenue with Lee Road. Oakwood Avenue is under the jurisdiction of the City of Des Plaines and has a posted speed limit of 25 miles per hour.

Jeannette Street is a north-south local roadway that serves residential houses in the vicinity of the site. Jeannette Street extends south from Thacker Road to its terminus at Algonquin Road providing one travel lane in each direction. At its unsignalized "T" intersection with Thacker Street, Jeannette Street provides a shared left-turn/right-turn lane on the northbound approach. A standard style crosswalk is provided on the south leg of this intersection. Jeannette Street is under the jurisdiction of the City of Des Plaines and has a posted speed limit of 25 miles per hour.

First Avenue is a north-south local roadway that provides one travel lane in each direction. At its unsignalized "T" intersection with Thacker Street, First Avenue provides a shared left-turn/right-turn lane on the southbound approach. A standard style crosswalk is provided on the north leg of this intersection. First Avenue is under the jurisdiction of the City of Des Plaines and has a posted speed limit of 25 miles per hour.

Proposed Residential Development Des Plaines, Illinois



6 6 *Laurel Avenue* is a north-south local roadway that provides one lane in each direction. At its unsignalized "T" intersection with Thacker Street, Laurel Avenue provides a shared left-turn/right-turn lane on the southbound approach. Laurel Avenue is under the jurisdiction of the City of Des Plaines.

The east alley is a north-south local roadway that provides one lane in each direction. At its unsignalized intersection with Thacker Street, the alley provides a shared left-turn/through/right-turn lane on both approaches. At its unsignalized "T" intersection with Oakwood Avenue, the alley provides a shared left-turn/right-turn lane on the southbound approach.

Existing Traffic Volumes

In order to determine current traffic conditions within the study area, KLOA. Inc conducted traffic counts using Miovision Video Scout Collection Units on Tuesday, April 11, 2023 and on Thursday, April 27, 2023 during the weekday morning (7:00 to 9:00 A.M.) and weekday evening (4:00 to 6:00 P.M.) peak periods at the following intersections:

- Thacker Street with Lee Road
- Thacker Street with Graceland Avenue
- Thacker Street with Laurel Avenue
- Thacker Street with First Avenue
- Thacker Street with Jeannette Street
- Thacker Street with the east alley
- Thacker Steet with the west alley
- Oakwood Avenue with Lee Road
- Oakwood Avenue with the east alley
- Oakwood Avenue with Graceland Avenue

Based on the turning movement count data, it was determined that the weekday morning peak hour of traffic generally occurs between 8:00 A.M. and 9:00 A.M. and the weekday evening peak hour of traffic generally occurs between 4:45 P.M. and 5:45 P.M.

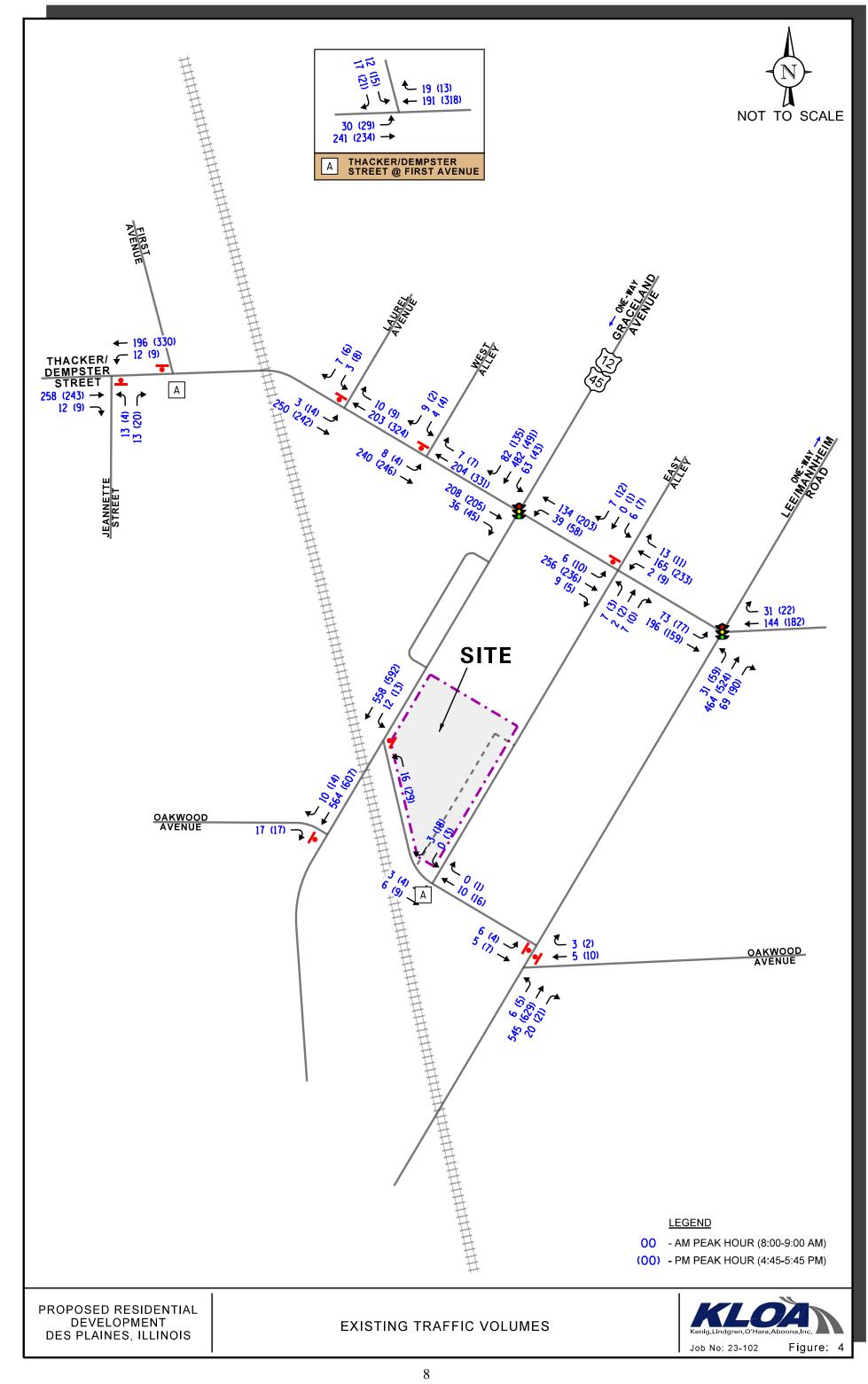
Figure 4 illustrates the Year 2023 existing traffic volumes.



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Train Observations

The Union Pacific Metra Northwest crosses Graceland Avenue and Thacker Street in the vicinity of the site. Based on the Illinois Commerce Commission (ICC) data, the tracks carry an average of 22 daily passenger trains only. Furthermore and based on the Metra schedule, the Des Plaines Metra station is served by 69 trains (34 inbound, 35 outbound) on weekdays, 31 trains on Saturdays, and 19 trains on Sundays operating between 5:00 A.M. and 1:00 A.M. Monday through Friday. Field observations conducted during the peak hours for the crossings of Graceland Avenue and Thacker Street indicated the following:

Graceland Avenue Crossing

- During the weekday morning peak hour, three Metra train events were observed. The gates were down for approximately 35 seconds on average. The southbound approach queue at the railroad crossing did not extend to Thacker Street with a maximum queue of approximately 12 vehicles.
- During the weekday evening peak hour, four Metra train events were observed. The gates were down for approximately 51 seconds on average. The southbound approach queue at the railroad crossing did not extend back to Thacker Street with a maximum queue of approximately 12 vehicles.

Thacker Street Crossing

- During the weekday morning peak hour, the queues did not extend past Laurel Avenue.
- During the weekday evening peak hour, the queues extended past Laurel Avenue for approximately 45 seconds and cleared within 30 seconds after the gate was opened.

Crash Data Summary

KLOA, Inc. obtained crash data¹ for the past five years (2018 to 2022) for the intersections of Thacker Street with Lee Road, Thacker Street with Graceland Avenue, Graceland Avenue with Oakwood Avenue, Lee Road with Oakwood Avenue, Thacker Street with Jeannette Street and Laurel Avenue. A review of the crash data indicated that no crashes were reported at the intersection of Thacker Street with Laurel Avenue. It should be noted that no fatalities were reported at any studied intersection between 2018 and 2022. **Tables 1** through **5** summarize the crash data for these intersections.



¹ IDOT DISCLAIMER: The motor vehicle crash data referenced herein was provided by the Illinois Department of Transportation. The author is responsible for any data analyses and conclusions drawn.

Table 1THACKER STREET WITH GRACELAND AVENUE - CRASH SUMMARY

Year	Type of Crash Frequency							
i ear	Angle	Object	Rear End	Sideswipe	Turning	Other	Total	
2018	1	0	0	0	1	0	2	
2019	3	0	1	1	1	0	6	
2020	1	0	1	0	0	0	2	
2021	0	0	0	0	0	0	0	
2022	1	0	0	0	1	0	2	
Total	6	0	2	1	3	0	12	
Average/Year	1.2		<1.0	<1.0	<1.0		2.4	

Table 2 THACKER STREET WITH LEE ROAD - CRASH SUMMARY

Veer	Type of Crash Frequency						
Year	Angle	Object	Rear End	Sideswipe	Turning	Other	Total
2018	1	0	1	0	5	0	7
2019	1	0	1	0	5	0	7
2020	0	0	0	0	6	0	6
2021	0	0	0	0	2	0	2
2022	0	0	0	1	3	0	4
Total	2	0	2	1	21	0	26
Average/Year	<1.0		<1.0	<1.0	4.2		5.2



Table 3 GRACELAND AVENUE WITH OAKWOOD AVENUE - CRASH SUMMARY

Year	Type of Crash Frequency						
i ear	Angle	Object	Rear End	Sideswipe	Turning	Other	Total
2018	0	0	0	0	1	0	1
2019	0	0	1	0	0	0	1
2020	0	0	0	0	0	0	0
2021	0	0	0	0	0	0	0
2022	0	0	0	0	0	0	0
Total	0	0	1	0	1	0	2
Average/Year			<1.0		<1.0		<1.0

Table 4 LEE ROAD WITH OAKWOOD AVENUE – CRASH SUMMARY

Vaar	Type of Crash Frequency						
Year	Angle	Object	Rear End	Sideswipe	Turning	Other	Total
2018	1	0	0	0	0	0	1
2019	0	0	0	0	2	0	2
2020	2	0	0	0	1	0	3
2021	0	0	0	0	0	0	0
2022	0	0	0	0	1	0	1
Total	3	0	0	0	4	0	7
Average/Year	<1.0				<1.0		1.4

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Table 5
THACKER STREET WITH JEANNETTE STREET – CRASH SUMMARY

Year	Type of Crash Frequency						
i ear	Angle	Object	Rear End	Sideswipe	Turning	Other	Total
2018	0	0	0	0	0	0	0
2019	0	0	0	0	0	0	0
2020	0	0	0	0	0	0	0
2021	0	0	0	0	0	0	0
2022	1	1	0	0	0	0	2
Total	1	1	0	0	0	0	2
Average/Year	<1.0	<1.0					<1.0



3. Traffic Characteristics of the Proposed Development

In order to properly evaluate future traffic conditions in the surrounding area, it was necessary to determine the traffic characteristics of the proposed development, including the directional distribution and volumes of traffic that it will generate.

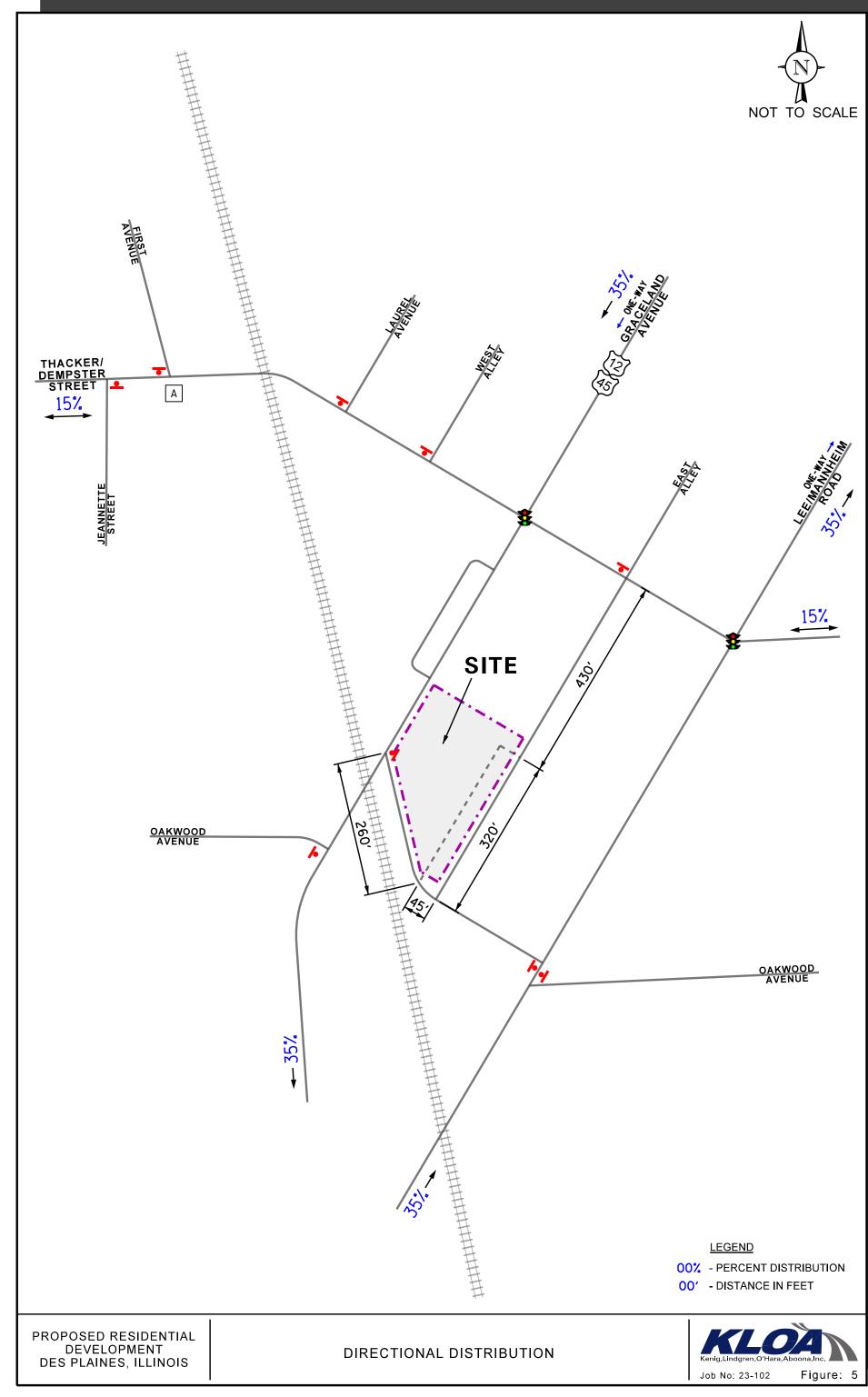
Proposed Site and Development Plan

The site, which is currently utilized as the parking lot for Contour Saws Inc., will be redeveloped to provide 56 apartment units (41 one-bedroom units and 15 two-bedroom units) with 64 parking spaces. Access to the development will be provided via a full-movement access drive off Oakwood Avenue located approximately 260 feet east of Graceland Avenue and a full-movement access drive off the alley located approximately 320 feet north of Oakwood Avenue. Both access drives provide one inbound lane and one outbound lane with the outbound movements under stop sign control. A copy of the preliminary site plan depicting the proposed development is included in the Appendix.

Directional Distribution

The directions from which residents and visitors of the development will approach and depart the site were estimated based on existing travel patterns, as determined from the traffic counts. **Figure 5** illustrates the directional distribution of the traffic to be generated by the proposed development.





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Development Traffic Generation

The vehicle trip generation for the overall development was calculated using data published in the Institute of Transportation Engineers (ITE) *Trip Generation Manual*, 11th Edition. The "Multifamily Housing" (ITE Land-Use Code 221) rate was used for the proposed residential units.

It should be noted that due to the location of the site within close proximity of the Des Plaines Metra Station, census data for the area indicates that five percent of the estimated trips to be generated by the proposed development will be via the public transportation, two percent will walk, and one percent will bike. However, in order to provide a conservative analysis, no reductions were applied.

Table 6 shows the estimated vehicle trip generation for the weekday morning and weekday evening peak hours as well as daily traffic. Copies of the ITE trip generation worksheets are included in the Appendix.

ITE Land-	Type/Size	Weekday Morning Peak Hour			Weekday Evening Peak Hour			Weekday Daily Trips		
Use Code	- J F C N M C	In	Out	Total	In	Out	Total	In	Out	Total
221	Multifamily Housing (Mid-Rise) 56 units	3	10	13	14	8	22	111	111	222

Table 6SITE GENERATED TRIP ESTIMATES

Trip Generation Comparison

It should be noted that the site is currently occupied by an approximate 107,000 square-foot manufacturing building and parking lot. **Table 7** indicates the trips estimated to be generated by the existing manufacturing site and the trips estimated to be generated by the proposed residential development and the future development of the actual manufacturing building which is located at 900 Graceland Avenue (as discussed later in the report). A comparison between the future development's generated trips and the manufacturing site shows that the trips estimated to be generated by the existing manufacturing site are approximately 35 percent higher during the weekday morning peak hour and 10 percent higher during the weekday evening peak hour.



Table 7 TRIP COMPARISON

ITE Land-	Type/Size	Weekday Morning Peak Hour			Weekday Evening Peak Hour			Weekday Daily Trips		
Use Code		In	Out	Total	In	Out	Total	In	Out	Total
221	Multifamily Housing (Mid-Rise) 178 units ¹	13	42	55	43	27	70	379	379	758
140	Manufacturing (~107,000 s.f.)		18	75	23	53	76	303	302	605
	Difference	-44	+24	-20	+20	-26	-6	+76	+76	+152
1 – Sum of both sites										

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4. Projected Traffic Conditions

The total projected traffic volumes include the existing traffic volumes, increase in background traffic due to growth, and the traffic estimated to be generated by the proposed subject development.

Development Traffic Assignment

The estimated peak hour traffic volumes that will be generated by the proposed development were assigned to the roadway system in accordance with the previously described directional distribution. **Figure 6** illustrates the assignment of the vehicle traffic volumes to be generated by the proposed development.

Background (No-Build) Traffic Conditions

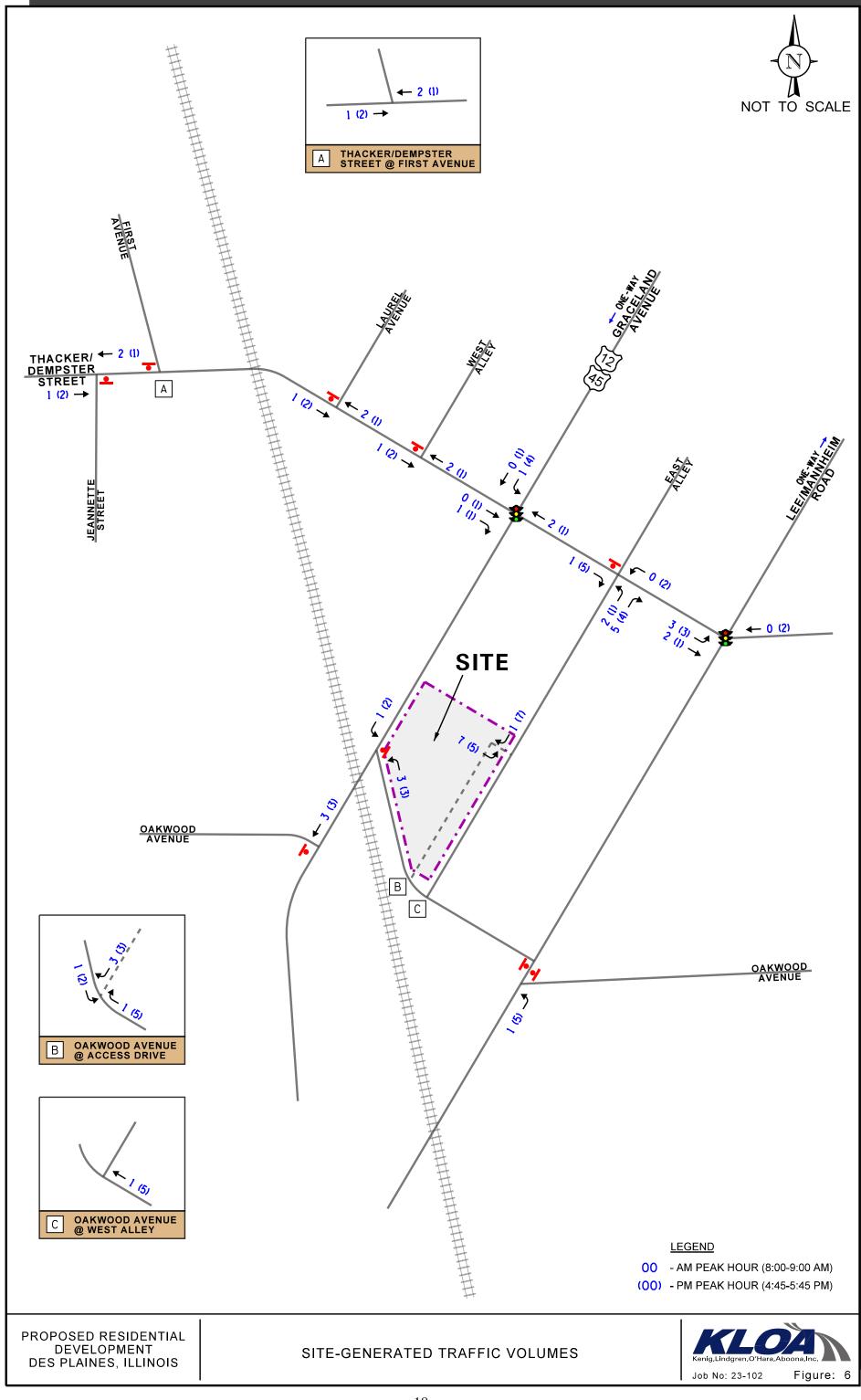
The existing traffic volumes (Figure 4) were increased by a regional growth factor to account for the increase in existing traffic related to regional growth in the area (i.e., not attributable to any particular planned development). Based on 2050 Average Daily Traffic (ADT) projections provided by the Chicago Metropolitan Agency for Planning (CMAP), the existing traffic volumes were increased by an annually compounded growth rate for six years (one-year buildout plus five years) totaling three percent to represent Year 2029 total projected conditions. Additionally, the Year 2029 no-build traffic volumes include the traffic estimated to be generated by the following other area developments:

- The generated trips by the Little Bulgaria Center located at 832 Lee Street were estimated and assigned to the roadway system. It should be noted that the pick-up and drop-off activities will take place off the east alley.
- It is our understanding that 96 units of the Welkin Apartments located at 1425 Ellinwood Street are unoccupied. The estimated trip to the vacant units were estimated and assigned to the roadway system.
- Trips estimated to be generated by a proposed residential development with 122 apartment units to be locate at 900 Graceland Avenue which is currently occupied by Contour Saws Inc.

Total Projected Traffic Volumes

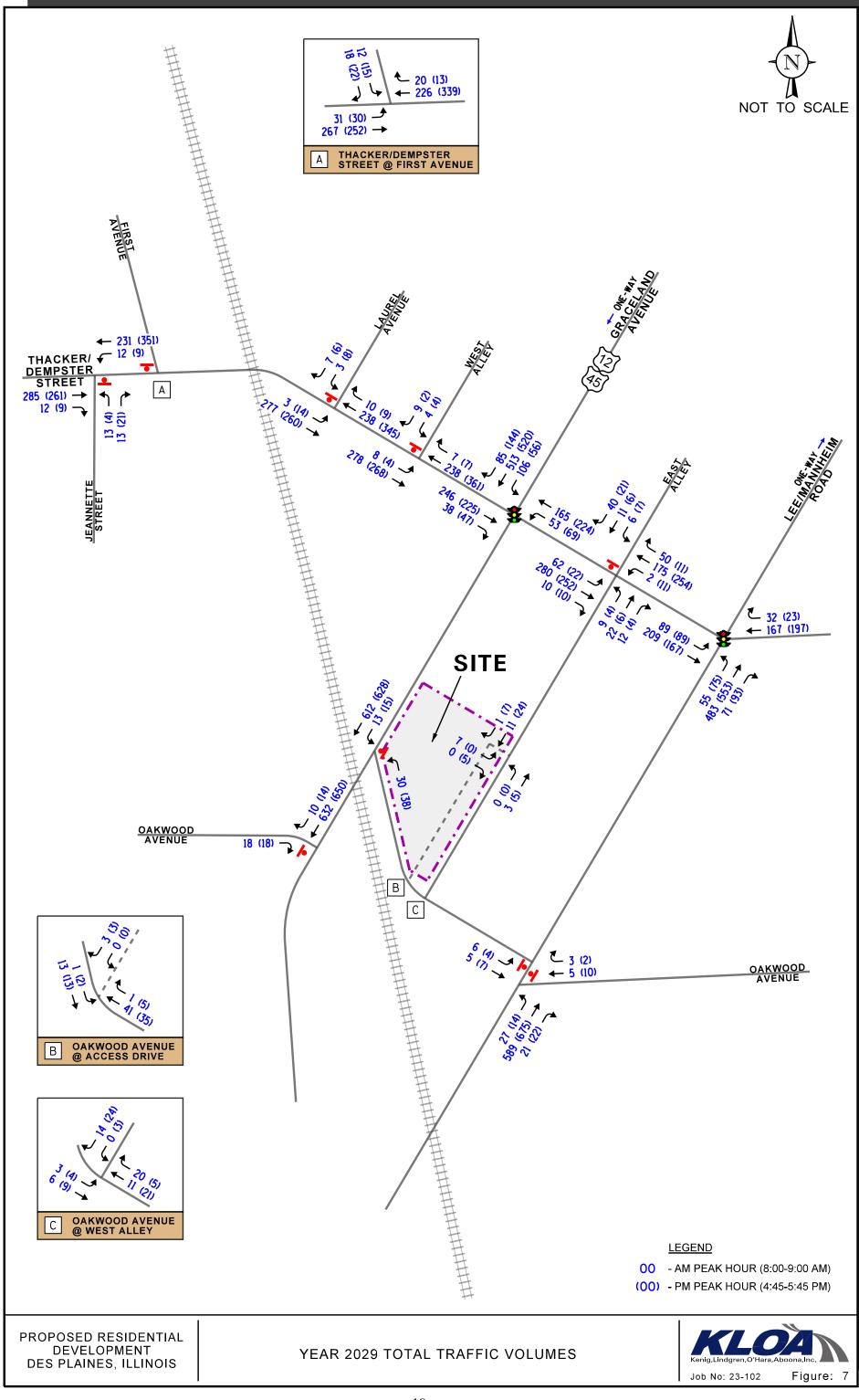
The total projected traffic volumes include the Year 2029 no-build traffic volumes and the traffic estimated to be generated by the proposed development (Figure 6). **Figure 7** shows the Year 2029 total projected traffic volumes.





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5. Traffic Analysis and Recommendations

The following provides an evaluation conducted for the weekday morning and evening peak hours. The analysis includes conducting capacity analyses to determine how well the roadway system and access drives are projected to operate and whether any roadway improvements or modifications are required.

Traffic Analyses

Roadway and adjacent or nearby intersection analyses were performed for the weekday morning and evening peak hours for the existing and future projected (Year 2029) traffic volumes.

The traffic analyses were performed using the methodologies outlined in the Transportation Research Board's *Highway Capacity Manual (HCM)*, 6th Edition and analyzed using Synchro/SimTraffic 11 software. The analysis for the traffic-signal controlled intersection was accomplished using actual cycle lengths and phasings to determine the average overall vehicle delay and levels of service.

The analyses for the unsignalized intersections determine the average control delay to vehicles at an intersection. Control delay is the elapsed time from a vehicle joining the queue at a stop sign (includes the time required to decelerate to a stop) until its departure from the stop sign and resumption of free flow speed. The methodology analyzes each intersection approach controlled by a stop sign and considers traffic volumes on all approaches and lane characteristics.

The ability of an intersection to accommodate traffic flow is expressed in terms of level of service, which is assigned a letter from A to F based on the average control delay experienced by vehicles passing through the intersection. The *Highway Capacity Manual* definitions for levels of service and the corresponding control delay for signalized intersections and unsignalized intersections are included in the Appendix of this report.

Summaries of the traffic analysis results showing the level of service and overall intersection delay (measured in seconds) for the existing and Year 2029 total projected conditions are presented in **Tables 8** through **11**. A discussion of the intersections follows. Summary sheets for the capacity analyses are included in the Appendix.



Table 8 CAPACITY ANALYSIS RESULTS – THACKER STREET WITH GRACELAND AVENUE – SIGNALIZED

		Eastbound	Westbound	Sou	O			
	Peak Hour	T/R	L/T	L T/R		Overall		
su	Weekday Morning	E – 59.1	D-47.8	A 6.3	A 6.5	С 25.7		
sting litio	withing			A – 6.4		23.1		
Existing Conditions	Weekday Evening	E-59.0	E – 55.4	A 6.6	A 6.7	C		
				A – 6.7		28.5		
Projected Conditions	Weekday Morning	E – 58.3	D-46.8	A 7.4	A 7.7	С		
				A – 7.6		26.7		
	Weekday Evening	E – 58.6	E – 57.1	A 7.1	A 7.4	С		
				A – 7.4		29.6		
Letter denotes Level of Service L – Left Turn R – Right Turn Delay is measured in seconds. T – Through								



Table 9	
CAPACITY ANALYSIS RESULTS – THACKER STREET WITH LEE ROAD – SIGNALIZED	

		Eastbound Westbound		Northbound	Orecreall		
	Peak Hour	L/T	Т	R	L/T/R	Overall	
a SU	Weekday Morning Weekday Evening	C - 34.9 C - 34.9	E 57.5	A 4.9	A – 9.6	C 22.9	
Existing Conditions				48.2			
Ex Con			Е 56.7	A 0.7	A – 9.5	С	
			D –	50.7		22.5	
	Weekday Morning	C – 33.8	Е 57.8	A 4.9		С	
cted tions			D-49.3		B-11.4	24.3	
Projected Conditions	Weekday Evening	C - 34.8	E 56.6	A 0.9	B-11.0	C 23.4	
	C		D-50.7			23.4	
Letter denotes Level of Service L – Left Turn R – Right Turn Delay is measured in seconds. T – Through							

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Table 10

CAPACITY ANALYSIS RESULTS – EXISTING CONDITIONS - UNSIGNALIZED

CAPACITY ANALYSIS R Intersection		Weekday	/ Morning Hour	Weekda	y Evening K Hour
		LOS	Delay	LOS	Delay
Graceland Avenue with	Oakwood Avenu	ue (North Int	tersection) ¹		
• Westbound Approach		В	11.0	В	11.0
Graceland Avenue with	Oakwood Avenu	ie (South Int	tersection) ¹		
• Eastbound Approach		В	10.4	В	11.0
Lee Street with Oakwood	d Avenue ¹				
• Eastbound Approach		В	12.8	В	14.2
• Westbound Approach		В	12.2	В	14.7
Thacker Street with Lau	rel Avenue ¹				
Southbound Approach		В	10.2	В	12.3
• Eastbound Left Turn		А	7.7	А	8.1
Thacker Street with Firs	t Avenue ¹				
• Southbound Approach		В	11.2	В	12.3
• Eastbound Left Turn		А	7.8	А	8.2
Jeannette Street with Th	acker Street ¹				
• Northbound Approach		В	11.3	В	10.5
• Westbound Left Turn		А	8.0	А	7.8
Thacker Street with Alle	y (West Alley) ¹				
• Southbound Approach		В	10.3	В	12.6
• Eastbound Left Turn		А	7.7	А	8.1
Thacker Street with Alle	y (East Alley) ¹				
Northbound Approach		В	11.5	В	14.0
• Southbound Approach		В	10.9	В	11.6
• Eastbound Left Turn		А	7.6	А	7.8
• Westbound Left Turn		А	7.8	А	7.8
Oakwood Avenue with A	lley ¹				
• Southbound Approach		А	8.4	А	8.5
• Eastbound Left Turn		А	7.2	А	7.2
LOS = Level of Service Delay is measured in seconds.		1-	All-Way Stop Co	ontrol.	

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Table 11

CAPACITY ANALYSIS RESULTS -- PROJECTED CONDITIONS - UNSIGNALIZED

Intersection		y Morning Hour		y Evening Hour
	LOS	Delay	LOS	Delay
Graceland Avenue with Oakwood A	venue (North Int	ersection) ¹		
Westbound Approach	В	11.5	В	11.3
Graceland Avenue with Oakwood A	venue (South Int	ersection) ¹		
Eastbound Approach	В	10.7	В	11.3
Lee Street with Oakwood Avenue ¹				
• Eastbound Approach	В	13.8	С	15.1
Westbound Approach	В	13.0	С	15.7
Thacker Street with Laurel Avenue ¹				
Southbound Approach	В	10.5	В	12.7
• Eastbound Left Turn	А	7.8	А	8.2
Thacker Street with First Avenue ¹				
Southbound Approach	В	11.6	В	12.7
• Eastbound Left Turn	А	7.8	А	8.2
Jeannette Street with Thacker Street	t ¹			
Northbound Approach	В	11.8	В	10.7
Westbound Left Turn	А	8.0	А	7.8
Thacker Street with Alley (West Alle	ey) ¹			
Southbound Approach	В	10.7	В	13.2
• Eastbound Left Turn	А	7.8	А	8.2
Thacker Street with Alley (East Alle	y) ¹			
Northbound Approach	С	15.4	В	14.0
Southbound Approach	В	12.0	В	12.4
• Eastbound Left Turn	А	7.9	А	7.9
Westbound Left Turn	А	7.9	А	7.9
Oakwood Avenue with Alley ¹				
Southbound Approach	А	8.5	А	8.6
• Eastbound Left Turn	А	7.3	А	7.3
Alley with Proposed Access Drive ¹				
• Eastbound Approach	А	8.6	А	8.4
Northbound Left Turn	А	0.1	А	0.1
Oakwood Avenue with Proposed Ac	cess Drive ¹			
Southbound Approach	А	8.5	А	8.5
Eastbound Left Turn	А	7.3	А	7.3
LOS = Level of Service Delay is measured in seconds.	1-	All-Way Stop C	ontrol.	

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Discussion and Recommendations

The following summarizes how the intersections are projected to operate and identifies any roadway and traffic control improvements necessary to accommodate the development traffic.

Thacker Street with Graceland Avenue

The results of the capacity analysis indicate that overall this intersection currently operates at Level of Service (LOS) C during the weekday morning and weekday evening peak hours. The eastbound approach currently operates at LOS E during both peak hours and the westbound approach operates at LOS D during the weekday morning peak hour and LOS E during the weekday evening peak hour. Additionally, the southbound approach operates at LOS A during both peak hours.

Under Year 2029 total projected conditions, overall this intersection is projected to continue operating at LOS C during the weekday morning and weekday evening peak hours with increases in delay of approximately one second and less than two seconds, respectively. All the approaches are projected to continue operating at the same existing levels of service during the peak hours with increases in delay of less than three seconds. The maximum 95th percentile queue for the eastbound through movement is projected to be approximately 295 feet during the weekday evening peak hour and will extend to the west alley but based on the field observations and the traffic simulation, the queue will clear the intersection during each green phase. The maximum 95th percentile queue for the westbound through movement is projected to be approximately 280 feet during the weekday evening peak hour and will extend to the east alley but based on the field observations and the traffic simulation, the queue will clear the intersection during each green phase. As such, this intersection has adequate reserve capacity to accommodate the traffic estimated to be generated by the proposed development and no roadway improvements and/or traffic control modifications are required.

Thacker Street with Lee Road

The results of the capacity analysis indicate that overall this intersection currently operates at LOS C during the weekday morning and weekday evening peak hours. The eastbound approach operates at LOS C during both peak hours and the westbound approach operates at LOS D during both peak hours. Additionally, the northbound approach operates at LOS A during both peak hours.

Under Year 2029 total projected conditions, overall this intersection is projected to continue operating at LOS C during the weekday morning and weekday evening peak hours with increases in delay of less than two seconds. The eastbound and westbound approaches are projected to operate at the same existing levels of service during both peak hours with increases in delay of less than two seconds. The northbound approach is projected to operate at LOS B during both peak hours with increases in delay of less than two seconds. The maximum 95th percentile queue for the eastbound through movement is projected to be approximately 245 feet during the weekday morning peak hour and will extend to the east alley but based on the field observations and the traffic simulation, the queue will clear the intersection during each green phase. As such, this intersection has adequate reserve capacity to accommodate the traffic control modifications are required.

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Graceland Avenue with Oakwood Avenue (North Intersection)

The results of the capacity analysis indicate that the westbound approach currently operates at LOS B during the weekday morning and weekday evening peak hours.

Under Year 2029 total projected conditions, the westbound approach is projected to continue operating at LOS B during both peak hours with increases in delay of less than one second. As such, the traffic that will be generated by the proposed development will have a limited impact on the operation of this intersection and no roadway improvements and/or traffic control modifications are required.

Graceland Avenue with Oakwood Avenue (South Intersection)

The results of the capacity analysis indicate that the eastbound approach currently operates at LOS B during the weekday morning and weekday evening peak hours.

Under Year 2029 total projected conditions, the eastbound approach is projected to continue operating at LOS B during both peak hours with increases in delay of less than one second. As such, the traffic that will be generated by the proposed development will have a limited impact on the operation of this intersection and no roadway improvements and/or traffic control modifications are required.

Lee Street with Oakwood Avenue

The results of the capacity analysis indicate that the eastbound and westbound approaches currently operate at LOS B during the weekday morning and weekday evening peak hours.

Under Year 2029 total projected conditions, the eastbound and westbound approaches are projected to operate at LOS B during the weekday morning peak hour and LOS C during the weekday evening peak hour with increases in delay of approximately one second or less. As such, this intersection has adequate reserve capacity to accommodate the traffic estimated to be generated by the proposed development and no roadway improvements and/or traffic control modifications are required.

Thacker Street with Laurel Avenue

The results of the capacity analysis indicate that the southbound approach currently operates at LOS B during the weekday morning and weekday evening peak hours while the eastbound left-turn movement operates at LOS A during both peak hours.

Under Year 2029 total projected conditions, the southbound approach and the eastbound left-turn movement are projected to continue operating at the same existing levels of service during both peak hours with increases in delay of less than one second. As such, the traffic estimated to be generated by the proposed development will have a limited impact on the operation of this intersection and no roadway improvements and/or traffic control modifications are required.



Thacker Street with First Avenue

The results of the capacity analysis indicate that the southbound approach currently operates at LOS B during the weekday morning and weekday evening peak hours while the eastbound left-turn movement operates at LOS A during both peak hours.

Under Year 2029 total projected conditions, the southbound approach and the eastbound left-turn movement are projected to continue operating at the same existing levels of service during both peak hours with increases in delay of less than one second. As such, the traffic estimated to be generated by the proposed development will have a limited impact on the operation of this intersection and no roadway improvements and/or traffic control modifications are required.

Thacker Street with Jeannette Street

The results of the capacity analysis indicate that the northbound approach currently operates at LOS B during the weekday morning and weekday evening peak hours while the westbound left-turn movement operates at LOS A during both peak hours.

Under Year 2029 total projected conditions, the northbound approach and the westbound left-turn movement are projected to continue operating at the same existing levels of service during both peak hours with increases in delay of less than one second. As such, the traffic estimated to be generated by the proposed development will have a limited impact on the operation of this intersection and no roadway improvements and/or traffic control modifications are required.

Thacker Street with West Alley

The results of the capacity analysis indicate that the southbound approach currently operates at LOS B during the weekday morning and weekday evening peak hours and the eastbound left-turn operates at LOS A during both peak hours.

Under Year 2029 total projected conditions, the southbound approach and the eastbound left-turn are projected to continue operating at the existing levels of service during both peak hours with increases in delay of less than one second. As such, the traffic estimated to be generated by the proposed development will have a limited impact on the operation of this intersection and no roadway improvements and/or traffic control modifications are required

Thacker Street with East Alley

The results of the capacity analysis indicate that the northbound and southbound approaches currently operate at LOS B during the weekday morning and weekday evening peak hours. the eastbound and the westbound left-turn movements currently operate at LOS A during both peak hours.

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Under Year 2029 total projected conditions, the northbound approach is projected to operate at LOS C during the weekday morning peak hour and LOS B during the weekday evening peak hour with increases in delay of less than four seconds. The southbound approach is projected to continue operating at LOS B during both peak hours with increases in delay of less than two seconds. The eastbound and westbound left-turn movements are projected to continue operating at LOS A during both peak hours with increases in delay of less than one second. As such, this intersection has adequate reserve capacity to accommodate the traffic estimated to be generated by the proposed development and no roadway improvements and/or traffic control modifications are required.

Oakwood Avenue with East Alley

The results of the capacity analysis indicate that the southbound approach and the eastbound leftturn movement currently operate at LOS A during the weekday morning and weekday evening peak hour.

Under Year 2029 total projected conditions, the southbound approach and the eastbound left-turn movement are projected to continue operating at LOS A during both peak hours with increases in delay of less than one second. As such, the traffic estimated to be generated by the proposed development will have a limited impact on the operation of this intersection and no roadway improvements and/or traffic control modifications are required.

East Alley with Proposed Access Drive

The proposed full-movement access drive off the east alley will provide one inbound lane and one outbound lane with the outbound movements under stop sign control.

Under Year 2029 total projected conditions, the eastbound approach and the northbound left-turn movement are projected to operate at LOS A during the weekday morning and weekday evening peak hours. As such, this intersection will be adequate to accommodate the traffic estimated to be generated by the proposed development and will ensure efficient access to the site.

Oakwood Avenue with Proposed Access Drive

The proposed full-movement access drive off Oakwood Avenue will provide one inbound lane and one outbound lane with the outbound movements under stop sign control.

Under Year 2029 total projected conditions, the southbound approach and the eastbound left-turn movement are projected to operate at LOS A during both peak hours. As such, this intersection will be adequate to accommodate the traffic estimated to be generated by the proposed development and will ensure efficient access to the site.



Parking Evaluation

As previously indicated, the proposed development will have approximately 56 apartment units (41 one-bedroom units and 15 two-bedroom units) with 64 parking spaces. In order to determine the projected parking demand of the proposed development, the parking demand was estimated based on the City of Des Plaines Code of Ordinances and parking rates published in the Institute of Transportation Engineers' (ITE) *Parking Generation Manual*, 5th Edition. Based on the two methodologies, the parking demand for the proposed development is as follows:

Parking Requirements of Proposed Development per City Code

- Multifamily Housing (56 Units)
 - 1 parking space per studio or one-bedroom unit
 - 1.5 parking spaces per two-bedroom unit

Based on the above and the requirements of the City of Des Plaines, this translates into 64 parking spaces It is also important to note that this ratio does not take into account the proximity of the site to the Metra train station.

ITE Parking Generation Manual

- Residential Use (Multifamily Housing Mid-Rise Land Use Code 221)
 - 0.75 space per bedroom

Based on the above and the rates published in the ITE *Parking Generation Manual*, the above translates into 54 parking spaces based on the number of bedrooms which results in a surplus of 10 parking spaces. Therefore, the proposed parking supply of 64 parking spaces meets ITE's requirements of 54 parking spaces.

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Proposed Residential Development

6. Conclusion

Based on the preceding analyses and recommendations, the following conclusions have been made:

- The volume of traffic projected to be generated by the proposed development will be reduced due to the proximity of the development to the Des Plaines Metra train station.
- The results of the capacity analysis indicate that the proposed development traffic will not have a significant impact on the area roadways.
- Access to the development will be provided via a full-movement access drive off Oakwood Avenue located approximately 260 feet east of Graceland Avenue and a full-movement access drive off the alley located approximately 320 feet north of Oakwood Avenue. Both access drives will provide one inbound lane and one outbound lane with the outbound movements under stop sign control.
- The proposed access drives will be adequate in accommodating the traffic projected to be generated by the proposed development and will ensure that a flexible access system is provided.
- The proposed parking supply of 64 spaces will meet the City of Des Plaines and ITE requirements.



Appendix

Traffic Count Summary Sheets Site Plan ITE Trip Generation Summary Sheets Level of Service Criteria Capacity Analysis Summary Sheets

Traffic Count Summary Sheets

Kenig, Lindgren, O'Hara, Aboona, Inc. 9575 W. Higgins Rd., Suite 400

9.0 W. Fliggins Kd., Suite 400 Rosemont, Illinois, United States 60018 (847)518-9990 sainkeshavarzi@kloainc.com

Count Name: Graceland Avenue with North Access Drives TMC Site Code: Start Date: 04/26/2023 Page No: 1

		-	Month Access				, ,						Customer A handless			
Ctort Time			west Access Urive Eastbound	9			ن	Graceland Avenue Northbound	Ð				Graceland Avenue Southbound	٥		
	U-Turn	Left	Right	Peds	App. Total	U-Turn	Left	Thru	Peds	App. Total	U-Turn	Thru	Right	Peds	App. Total	Int. Total
4:00 PM	0	0	0	1	0	0	0	0	0	0	0	160	0	0	160	160
4:15 PM	0	0	1	1	1	0	0	0	0	0	0	187	1	0	188	189
4:30 PM	0	0	0	2	0	0	0	0	0	0	0	135	0	0	135	135
4:45 PM	0	0	0	1	0	0	0	0	0	0	0	167	0	0	167	167
Hourly Total	0	0	-	5	~	0	0	0	0	0	0	649	-	0	650	651
5:00 PM	0	0	0	С	0	0	0	4	0	-	0	119	0	0	119	120
5:15 PM	0	0	0	0	0	0	0	0	0	0	0	169	0	0	169	169
5:30 PM	0	0	0	0	0	0	0	0	0	0	0	159	0	0	159	159
5:45 PM	0	0	0	2	0	0	0	4	0	-	0	131	0	0	131	132
Hourly Total	0	0	0	5	0	0	0	2	0	2	0	578	0	0	578	580
*** BREAK ***	-		•	-	-	-	-	-	-	-	-	-	-	-	-	
7:00 AM	0	0	0	1	0	0	0	0	0	0	0	87	-	0	88	88
7:15 AM	0	0	0	e	0	0	0	0	0	0	0	100	0	1	100	100
7:30 AM	0	0	0	0	0	0	0	0	0	0	0	120	0	0	120	120
7:45 AM	0	0	0	0	0	0	0	0	0	0	0	153	0	0	153	153
Hourly Total	0	0	0	4	0	0	0	0	0	0	0	460	1	1	461	461
8:00 AM	0	0	0	0	0	0	0	0	0	0	0	152	0	0	152	152
8:15 AM	0	0	0	1	0	0	0	0	0	0	0	135	0	0	135	135
8:30 AM	0	0	0	0	0	0	0	0	0	0	0	117	0	0	117	117
8:45 AM	0	0	0	0	0	0	0	0	0	0	0	138	0	0	138	138
Hourly Total	0	0	0	1	0	0	0	0	0	0	0	542	0	0	542	542
Grand Total	0	0	-	15	-	0	0	2	0	2	0	2229	2	+	2231	2234
Approach %	0.0	0.0	100.0	ı.		0.0	0.0	100.0	ī	,	0.0	99.9	0.1	i.	1	
Total %	0.0	0.0	0.0		0.0	0.0	0.0	0.1		0.1	0.0	99.8	0.1		99.9	
Lights	0	0	-	,	-	0	0	0	,	0	0	2153	2	,	2155	2156
% Lights	-		100.0	-	100.0	-	-	0.0	-	0.0	-	96.6	100.0		96.6	96.5
Buses	0	0	0		0	0	0	0		0	0	28	0		28	28
% Buses			0.0		0.0			0.0	,	0.0		1.3	0.0	,	1.3	1.3
Single-Unit Trucks	0	0	0	-	0	0	0	0	-	0	0	28	0	-	28	28
% Single-Unit Trucks	-		0.0		0.0	-	-	0.0		0.0	-	1.3	0.0		1.3	1.3
Articulated Trucks	0	0	0	,	0	0	0	0	,	0	0	16	0	,	16	16
% Articulated Trucks	'		0.0		0.0			0.0	ī	0.0		0.7	0.0	i.	0.7	0.7
Bicycles on Road	0	0	0		0	0	0	2		2	0	4	0		4	9
% Bicycles on Road	,		0.0	ī	0.0			100.0	ī	100.0		0.2	0.0	I	0.2	0.3
Pedestrians	,	,	,	15	,		,		0	,			,	1		
0/ Dodoctrippe																

Kenig Lindgren, O'Hara, Aboona, Inc. 9575 W. Higgins Rd., Suite 400

Rosemont, Illinois, United States 60018 (847)518-9990 sainkeshavarzi@kloainc.com

Count Name: Graceland Avenue with North Access Drives TMC Site Code: Start Date: 04/26/2023 Page No: 2

	-					I UTITITING INTOVETTIETIL FEAK FOUL DATA (4.45 FINI)			יייייייייייייייייייייייייייייייייייייי							
		>	West Access Drive	a			U	Graceland Avenue	a			U	Graceland Avenue			
Otent Time			Eastbound					Northbound		_			Southbound			
Otart LITTIE	U-Turn	Left	Right	Peds	App. Total	U-Turn	Left	Thru	Peds	App. Total	U-Turn	Thru	Right	Peds	App. Total	Int. Total
4:45 PM	0	0	0	+	0	0	0	0	0	0	0	167	0	0	167	167
5:00 PM	0	0	0	ę	0	0	0	-	0	~	0	119	0	0	119	120
5:15 PM	0	0	0	0	0	0	0	0	0	0	0	169	0	0	169	169
5:30 PM	0	0	0	0	0	0	0	0	0	0	0	159	0	0	159	159
Total	0	0	0	4	0	0	0	-	0	~	0	614	0	0	614	615
Approach %	0.0	0.0	0.0	ı		0.0	0.0	100.0			0.0	100.0	0.0			
Total %	0.0	0.0	0.0	ı	0.0	0.0	0.0	0.2	ı	0.2	0.0	99.8	0.0	ı	99.8	
PHF	0.000	0.000	0.000	I	0.000	0.000	0.000	0.250	ı	0.250	0.000	0.908	0.000		0.908	0.910
Lights	0	0	0		0	0	0	0	-	0	0	604	0		604	604
% Lights		•	•					0.0		0.0		98.4	•		98.4	98.2
Buses	0	0	0	-	0	0	0	0	-	0	0	3	0		3	3
% Buses	-		•					0.0	-	0.0	-	0.5			0.5	0.5
Single-Unit Trucks	0	0	0		0	0	0	0		0	0	7	0		7	7
% Single-Unit Trucks	-	-	-		-	-	-	0.0		0.0	-	1.1	-	-	1.1	1.1
Articulated Trucks	0	0	0		0	0	0	0		0	0	0	0	-	0	0
% Articulated Trucks	-				-	-	-	0.0		0.0	-	0.0	•		0.0	0.0
Bicycles on Road	0	0	0		0	0	0	1		1	0	0	0		0	1
% Bicycles on Road								100.0		100.0		0.0			0.0	0.2
Pedestrians			•	4			•	•	0				•	0	•	-
% Pedestrians			•	100.0				•				•		-	-	-

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8575 W. Filggins Kd., Suite 400 Rosemont, Illinois, United States 60018 (847)518-9990 sainkeshavarzi@kloainc.com

Count Name: Graceland Avenue with North Access Drives TMC Site Code: Start Date: 04/26/2023 Page No: 3

					Turning	Movem	ent Pea	Turning Movement Peak Hour Data (8:00 AM)	Data (8:	00 AM)						
		-	West Access Drive	,e			Ū	Graceland Avenue	•			U	Graceland Avenue	_		
Ctort Time			Eastbound					Northbound					Southbound			
OIGHT HILLE	U-Turn	Left	Right	Peds	App. Total	U-Turn	Left	Thru	Peds	App. Total	U-Turn	Thru	Right	Peds	App. Total	Int. Total
8:00 AM	0	0	0	0	0	0	0	0	0	0	0	152	0	0	152	152
8:15 AM	0	0	0	1	0	0	0	0	0	0	0	135	0	0	135	135
8:30 AM	0	0	0	0	0	0	0	0	0	0	0	117	0	0	117	117
8:45 AM	0	0	0	0	0	0	0	0	0	0	0	138	0	0	138	138
Total	0	0	0	4	0	0	0	0	0	0	0	542	0	0	542	542
Approach %	0.0	0.0	0.0	ı		0.0	0.0	0.0			0.0	100.0	0.0			
Total %	0.0	0.0	0.0	ı	0.0	0.0	0.0	0.0	ı	0.0	0.0	100.0	0.0	I	100.0	
PHF	0.000	0.000	0.000	I	0.000	0.000	0.000	0.000	,	0.000	0.000	0.891	0.000		0.891	0.891
Lights	0	0	0	ı	0	0	0	0		0	0	522	0		522	522
% Lights		•	•	ı						•		96.3			96.3	96.3
Buses	0	0	0	-	0	0	0	0	-	0	0	12	0		12	12
% Buses	•		•	ı				•			-	2.2		ı	2.2	2.2
Single-Unit Trucks	0	0	0	ı	0	0	0	0		0	0	4	0		4	4
% Single-Unit Trucks	-	•	-		-	•	-		-	-	-	0.7	•	-	0.7	0.7
Articulated Trucks	0	0	0	-	0	0	0	0		0	0	4	0		4	4
% Articulated Trucks			•	-	-		-	-		-	-	0.7	-		0.7	0.7
Bicycles on Road	0	0	0		0	0	0	0	-	0	0	0	0	-	0	0
% Bicycles on Road	-		•	-	-	-				-	-	0.0	-		0.0	0.0
Pedestrians			•	1					0					0	•	
% Pedestrians		•		100.0	•									1	•	

Kenig, Lindgren, O'Hara, Aboona, Inc. Kenig Lindgren O'Hara Aboona, Inc. 9575 W. Higgins Rd., Suite 400

9575 W. Higgins Rd., Suite 400 Rosemont, Illinois, United States 60018 (847)518-9990

Count Name: Graceland Avenue with Oakwood Avenue - East TMC Site Code: Start Date: 04/27/2023 Page No: 1

			Oakwood Avenue	0			U	Graceland Avenue	n			Ċ	Graceland Avenue	Ð		
Start Time			Westbound				i	Northbound					Southbound			
	U-I urn	Lett	Kight	Peds	App. Iotal	U- I urn	Inru	Kight	Peds	App. I otal	U-1 urn	Lett	l nru	Peds	App. Iotal	Int. Lotal
4:00 PM	0	15	0	2	15	0	0	0	0	0	0	-	127	0	128	143
4:15 PM	0	7	0	2	7	0	0	0	0	0	0	10	177	0	187	194
4:30 PM	0	5	0	0	5	0	-	0	0	-	0	e	128	0	131	137
4:45 PM	0	8	0	1	8	0	0	0	0	0	0	8	143	0	151	159
Hourly Total	0	35	0	5	35	0	-	0	0	-	0	52	575	0	597	633
5:00 PM	0	9	0	1	6	0	0	0	0	0	0	2	142	0	144	150
5:15 PM	0	10	0	1	10	0	0	0	0	0	0	-	162	0	163	173
5:30 PM	0	2	0	-	5	0	-	0	0	-	0	2	116	0	118	124
5:45 PM	0	8	0	0	8	0	0	0	0	0	0	e	155	0	158	166
Hourly Total	0	29	0	3	29	0	1	0	0	-	0	8	575	0	583	613
*** BREAK ***	,						.				,		 			
7:00 AM	0	٢	0	0	1	0	0	0	0	0	0	5	94	0	66	100
7:15 AM	0	5	0	1	5	0	0	0	0	0	0	2	68	0	20	75
7:30 AM	0	e	0	0	3	0	0	0	0	0	0	4	108	0	112	115
7:45 AM	0	4	0	2	4	0	0	0	0	0	0	4	151	0	155	159
Hourly Total	0	13	0	co	13	0	0	0	0	0	0	15	421	0	436	449
8:00 AM	0	e	0	0	3	0	0	0	0	0	0	4	143	0	147	150
8:15 AM	0	3	0	1	3	0	0	0	0	0	0	2	131	0	133	136
8:30 AM	0	7	0	0	7	0	0	0	0	0	0	4	139	0	143	150
8:45 AM	0	3	0	0	3	0	0	0	0	0	0	2	125	0	127	130
Hourly Total	0	16	0	1	16	0	0	0	0	0	0	12	538	0	550	566
Grand Total	0	93	0	12	93	0	2	0	0	2	0	57	2109	0	2166	2261
Approach %	0.0	100.0	0.0	-	-	0.0	100.0	0.0	-	-	0.0	2.6	97.4	-	•	
Total %	0.0	4.1	0.0	-	4.1	0.0	0.1	0.0	-	0.1	0.0	2.5	93.3	-	95.8	
Lights	0	88	0		88	0	٢	0		-	0	41	2043		2084	2173
% Lights	-	94.6	-	-	94.6	-	50.0		-	50.0	-	71.9	96.9	-	96.2	96.1
Buses	0	0	0		0	0	0	0		0	0	٢	25		26	26
% Buses	-	0.0	-		0.0	-	0.0	-		0.0	-	1.8	1.2		1.2	1.1
Single-Unit Trucks	0	5	0	-	5	0	0	0		0	0	14	17		31	36
% Single-Unit Trucks	-	5.4	-	-	5.4	-	0.0	-	-	0.0		24.6	0.8	-	1.4	1.6
Articulated Trucks	0	0	0		0	0	0	0		0	0	٢	19		20	20
% Articulated Trucks	-	0.0		-	0.0	-	0.0	-		0.0	-	1.8	0.9		0.9	0.9
Bicycles on Road	0	0	0		0	0	1	0		1	0	0	5		5	9
% Bicycles on Road		0.0			0.0		50.0			50.0		0.0	0.2		0.2	0.3
Pedestrians	-	-	-	12	-	-		-	0		-	-	-	0		-

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9575 W. Higgins Rd., Suite 400 Rosemont, Illinois, United States 60018 (847)518-9990

Count Name: Graceland Avenue with Oakwood Avenue - East TMC Site Code: Start Date: 04/27/2023 Page No: 2

					Turning) Mover	ient Pea	Turning Movement Peak Hour Data (4:45 PM))ata (4:	45 PM)						
		z	Oakwood Avenue				U	Graceland Avenue				U	Graceland Avenue			
Otort Time			Westbound					Northbound					Southbound			
Start LITTIE	U-Turn	Left	Right	Peds	App. Total	U-Turn	Thru	Right	Peds	App. Total	U-Turn	Left	Thru	Peds	App. Total	Int. Total
4:45 PM	0	8	0	1	8	0	0	0	0	0	0	8	143	0	151	159
5:00 PM	0	9	0	1	9	0	0	0	0	0	0	2	142	0	144	150
5:15 PM	0	10	0	1	10	0	0	0	0	0	0	-	162	0	163	173
5:30 PM	0	5	0	1	5	0	-	0	0	+	0	2	116	0	118	124
Total	0	29	0	4	29	0	-	0	0	+	0	13	563	0	576	606
Approach %	0.0	100.0	0.0			0.0	100.0	0.0			0.0	2.3	97.7			
Total %	0.0	4.8	0.0		4.8	0.0	0.2	0.0		0.2	0.0	2.1	92.9		95.0	
PHF	0.000	0.725	0.000	-	0.725	0.000	0.250	0.000	-	0.250	0.000	0.406	0.869	-	0.883	0.876
Lights	0	29	0	-	29	0	0	0	-	0	0	11	556	-	567	596
% Lights		100.0	•		100.0	-	0.0	-		0.0	-	84.6	98.8		98.4	98.3
Buses	0	0	0	-	0	0	0	0	-	0	0	0	3	-	3	3
% Buses	•	0.0		-	0.0		0.0	-	-	0.0	-	0.0	0.5	-	0.5	0.5
Single-Unit Trucks	0	0	0		0	0	0	0		0	0	2	1		3	3
% Single-Unit Trucks	-	0.0	-	-	0.0	•	0.0	-	-	0.0	-	15.4	0.2	-	0.5	0.5
Articulated Trucks	0	0	0		0	0	0	0		0	0	0	3		3	3
% Articulated Trucks	-	0.0	-		0.0	-	0.0	-		0.0	-	0.0	0.5		0.5	0.5
Bicycles on Road	0	0	0	-	0	0	1	0		1	0	0	0		0	1
% Bicycles on Road		0.0			0.0		100.0			100.0		0.0	0.0		0.0	0.2
Pedestrians			-	4	-				0	-				0		
% Pedestrians			•	100.0									1	I		

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Count Name: Graceland Avenue with Oakwood Avenue - East TMC Site Code: Start Date: 04/27/2023 Page No: 3

					l urning	I Movem	lent Pea	I urning Movement Peak Hour Data (8:00 AIM)	Jata (8:1							
		-	Oakwood Avenue	•			Ū	Graceland Avenue				U	Graceland Avenue			
C 41-14			Westbound					Northbound		_			Southbound			
Start LITTIE	U-Turn	Left	Right	Peds	App. Total	U-Turn	Thru	Right	Peds	App. Total	U-Turn	Left	Thru	Peds	App. Total	Int. Total
8:00 AM	0	3	0	0	3	0	0	0	0	0	0	4	143	0	147	150
8:15 AM	0	3	0	1	3	0	0	0	0	0	0	2	131	0	133	136
8:30 AM	0	7	0	0	7	0	0	0	0	0	0	4	139	0	143	150
8:45 AM	0	3	0	0	е	0	0	0	0	0	0	2	125	0	127	130
Total	0	16	0	-	16	0	0	0	0	0	0	12	538	0	550	566
Approach %	0.0	100.0	0.0			0.0	0.0	0.0	ı		0.0	2.2	97.8			•
Total %	0.0	2.8	0.0	ı	2.8	0.0	0.0	0.0	I	0.0	0.0	2.1	95.1		97.2	
PHF	0.000	0.571	0.000	ı	0.571	0.000	0.000	0.000	I	0.00	0.000	0.750	0.941		0.935	0.943
Lights	0	14	0		14	0	0	0		0	0	8	519		527	541
% Lights		87.5	•		87.5				ı	•	-	66.7	96.5		95.8	92.6
Buses	0	0	0		0	0	0	0		0	0	0	10		10	10
% Buses	•	0.0	•	ı	0.0			•	I		-	0.0	1.9		1.8	1.8
Single-Unit Trucks	0	2	0		2	0	0	0	ı	0	0	4	5		6	11
% Single-Unit Trucks	-	12.5		-	12.5	-	-	-	-		-	33.3	0.9		1.6	1.9
Articulated Trucks	0	0	0		0	0	0	0	-	0	0	0	4		4	4
% Articulated Trucks	-	0.0	•		0.0	-	-	•				0.0	0.7		0.7	0.7
Bicycles on Road	0	0	0	-	0	0	0	0	-	0	0	0	0		0	0
% Bicycles on Road	-	0.0			0.0	-	-		-	-	-	0.0	0.0		0.0	0.0
Pedestrians	-			1		-	-		0		-			0	•	
% Pedestrians	'	1	1	100.0					I		,	•		1	•	-

Count Name: Jeanette Street with Thacker Street TMC Site Code: Start Date: 04/11/2023 Page No: 1



Rosemont, Illinois, United States 60018 (847)518-9990 sainkeshavarzi@kloainc.com

			Int. Total	71	95	107	143	416	123	140	111	130	504	-	140	148	145	133	566	166	169	146	131	612	2098	,		2019	96.2	33	1.6	27	1.3	7	0.3	12
			App. Total	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0	0	0	0		0.0	0		0		0		0		0
	ve		Peds	-	0	0	0	1	1	4	2	0	7		2	3	0	3	8	1	4	2	9	13	29											
	Access Dr	ninor	Right	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0	0	0	0	0.0	0.0	0		0		0		0		0
	Schmika Auto Access Drive Southbound		Thru	0	0	0	0	0	0	0	0	0	0	•	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0	0	-	0		0		0		0
	Sch		Left	0	0	0	0	0	0	0	0	0	0	•	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0	0		0		0		0		0
			U-Turn	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0	0	0	0	0.0	0.0	0		0		0		0		0
-		~~~	App. Total	9	6	7	16	35	6	10	6	4	26		6	16	14	4	40	5	8	7	6	29	130		6.2	127	97.7	0	0.0	2	1.5	0	0.0	1
			Peds	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0	0	0	0											
	e Street	ninor	Right	5	2	7	6	23	4	е	4	2	13		5	13	9	4	28	4	9	9	9	22	86	66.2	4.1	85	98.8	0	0.0	٢	1.2	0	0.0	0
	Jeanette Street		Thru	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0	0	0	0	0.0	0.0	0		0		0		0		0
Jata			Left	-	4	0	7	12	2	7	2	2	13		٢	3	8	0	12	1	2	-	с	7	44	33.8	2.1	42	95.5	0	0.0	1	2.3	0	0.0	-
rning Movement Data			U-Turn	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0	0	0	0	0.0	0.0	0		0		0		0		0
loven		V	App. Total	33	39	48	44	164	50	60	46	52	208		72	76	61	76	285	97	86	80	74	337	994		47.4	948	95.4	21	2.1	14	1.4	5	0.5	9
ning N			Peds	0	0	0	0	0	0	0	1	0	1		1	0	0	3	4	1	0	-	2	4	6											
Turr	The second secon	ninor	Right	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0	0	0	0	0.0	0.0	0		0		0		0		0
	Thacker Stree	MEDIN	Thru	31	38	46	44	159	45	54	46	51	196		69	71	57	74	271	94	83	79	74	330	956	96.2	45.6	911	95.3	21	2.2	13	1.4	5	0.5	9
			Left	2	٢	2	0	5	5	9	0	1	12		3	5	4	2	14	3	з	-	0	7	38	3.8	1.8	37	97.4	0	0.0	1	2.6	0	0.0	0
			U-Turn	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0	0	0	0	0.0	0.0	0	-	0		0		0		0
		~~~~	App. Total	32	50	52	83	217	67	70	59	74	270		62	56	70	53	241	64	75	59	48	246	974		46.4	944	96.9	12	1.2	11	1.1	2	0.2	5
			Peds	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	1	~	0	0	2	2							-				
	r Street	nino	Right	2	3	1	1	7	2	5	4	1	12		2	3	٢	٢	7	2	4	2	-	6	35	3.6	1.7	34	97.1	0	0.0	0	0.0	0	0.0	-
	Thacker Street	Edolu	Thru	30	47	51	82	210	65	65	55	73	258		60	53	69	52	234	62	71	57	47	237	939	96.4	44.8	910	96.9	12	1.3	11	1.2	2	0.2	4
			Left	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0	0	0	0	0.0	0.0	0		0		0		0		0
			U-Turn	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0	0	0	0	0.0	0.0	0		0		0		0		0
-		Start Time		7:00 AM	7:15 AM	7:30 AM	7:45 AM	Hourly Total	8:00 AM	8:15 AM	8:30 AM	8:45 AM	Hourly Total	*** BREAK ***	4:00 PM	4:15 PM	4:30 PM	4:45 PM	Hourly Total	5:00 PM	5:15 PM	5:30 PM	5:45 PM	Hourly Total	Grand Total	Approach %	Total %	Lights	% Lights	Buses	% Buses	Single-Unit Trucks	% Single-Unit Trucks	Articulated Trucks	% Articulated Trucks	Bicycles on Road

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% Bicycles on Road	Pedestrians	% Pedestrians	

Count Name: Jeanette Street with Thacker Street TMC Site Code: Start Date: 04/11/2023 Page No: 3

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Kenig Lindgren O'Hara Aboona, Inc. 9575 W. Higgins Rd., Suite 400

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nig, Lindgren, O'Hara

Int. Total

App. Total

Peds

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Thru

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U-Turn

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	App. Total	9	10	9	4	26		5.2	0.650	26	100.0	0	0.0	0	0.0	0	0.0	0	0.0			
	Peds	0	0	0	0	0			-											0		
Street und	Right	4	3	4	2	13	50.0	2.6	0.813	13	100.0	0	0.0	0	0.0	0	0.0	0	0.0			
3:00 AM) Jeanette Street Northbound	Thru	0	0	0	0	0	0.0	0.0	0.000	0		0		0		0		0				
ata (8	Left	2	7	2	2	13	50.0	2.6	0.464	13	100.0	0	0.0	0	0.0	0	0.0	0	0.0			
Turning Movement Peak Hour Data (8:00 AM) Thacker Street Westbound	U-Turn	0	0	0	0	0	0.0	0.0	0.000	0		0		0		0		0				
ak —	App. Total	50	60	46	52	208		41.3	0.867	196	94.2	6	2.9	5	2.4	1	0.5	0	0.0			
nt Pe	Peds 7	0	0	1	0	1	-	-	- 0		-		-	-		-		-		1	100.0	
'emel	Right P						0.0	0.0	00												10	
D MOVE Thacker Street Westbound		0	0	0	0	5 0			0.000	5 0	4	0		0		0		0				
rning ™	Thru	45	54	46	51	196	94.2	38.9	0.907	185	94.4	9	3.1	4	2.0	1	0.5	0	0.0		•	
In	Left	5	9	0	1	12	5.8	2.4	0.500	11	91.7	0	0.0	1	8.3	0	0.0	0	0.0	•		
	U-Turn	0	0	0	0	0	0.0	0.0	0.000	0	•	0		0		0	•	0	•	-		
	App. Total	67	70	59	74	270		53.6	0.912	259	95.9	4	1.5	5	1.9	1	0.4	1	0.4			
	Peds	0	0	0	0	0			-											0		
Street und	Right	2	5	4	1	12	4.4	2.4	0.600	12	100.0	0	0.0	0	0.0	0	0.0	0	0.0			
Thacker Street Eastbound	Thru	65	65	55	73	258	95.6	51.2	0.884	247	95.7	4	1.6	5	1.9	1	0.4	1	0.4			
	Left	0	0	0	0	0	0.0	0.0	0.000	0		0		0		0		0				
	U-Turn	0	0	0	0	0	0.0	0.0	0.000	0		0		0		0		0			1	
	Start Time	8:00 AM	8:15 AM	8:30 AM	8:45 AM	Total	Approach %	Total %	PHF	Lights	% Lights	Buses	% Buses	Single-Unit Trucks	% Single-Unit Trucks	Articulated Trucks	% Articulated Trucks	Bicycles on Road	% Bicycles on Road	Pedestrians	% Pedestrians	

Count Name: Jeanette Street with Thacker Street TMC Site Code: Start Date: 04/11/2023 Page No: 4

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Kenig Lindgren O'Hara Aboona, Inc. 9575 W. Higgins Rd., Suite 400

701

enig, Lindgren, O'Hara, A

Int. Total

App. Total

Peds

Right

Thru

Left 0

U-Turn

Schmika Auto Access Drive

Southbound

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9575 W. Higgins Rd., Suite 400 Rosemont, Illinois, United States 60018 (847)518-9990 sainkeshavarzi@kloainc.com

Count Name: Laurel Avenue with Thacker Street TMC Site Code: Start Date: 04/11/2023 Page No: 1

			Thacker Street		_		)	Thacker Street					Laurel Avenue			
Start Time			Eastbound		_			Westbound					Southbound			
	U-Tum	Left	Thru	Peds	App. Total	U-Turn	Thru	Right	Peds	App. Total	U-Turn	Left	Right	Peds	App. Total	Int. Total
7:00 AM	0	5	52	0	57	0	48	-	0	49	0	-	2	4	3	109
7:15 AM	0	4	57	0	61	0	52	1	0	53	0	2	1	2	3	117
7:30 AM	0	٢	62	0	63	0	46	5	0	51	0	3	2	2	5	119
7:45 AM	0	2	65	0	67	0	49	е	0	52	0	0	Ł	-	F	120
Hourly Total	0	12	236	0	248	0	195	10	0	205	0	9	9	6	12	465
8:00 AM	0	2	44	~	46	0	39	4	0	40	0	-	з	-	4	6
8:15 AM	0	0	49	0	49	0	39	e	0	42	0	0	-	-	-	92
8:30 AM	0	0	47	0	47	0	38	2	0	40	0	7	2	0	4	91
8:45 AM	0	-	34	0	35	0	30	4	0	34	0	0	-	5	~	20
Hourly Total	0	Э	174	1	177	0	146	10	0	156	0	3	7	7	10	343
*** BREAK ***			,	1	,	,	,	,	ı	,					1	
4:00 PM	0	-	65	0	66	0	104	4	0	108	0	-	0	2	-	175
4:15 PM	0	2	65	0	67	0	69	4	~	73	0	2	-	4	е	143
4:30 PM	0	7	53	0	55	0	59	7	0	66	0	5	2	2	4	125
4:45 PM	0	4	55	0	59	0	75	-	~	76	0	4	0	4	4	139
Hourly Total	0	6	238	0	247	0	307	16	2	323	0	6	ю	12	12	582
5:00 PM	0	e	47	0	50	0	55	4	0	59	0	0	2	4	2	111
5:15 PM	0	e	51	0	54	0	67	-	0	68	0	2	-	4	ю	125
5:30 PM	0	4	49	0	53	0	62	е	2	65	0	2	Э	1	5	123
5:45 PM	0	2	53	2	55	0	43	З	0	46	0	2	1	1	3	104
Hourly Total	0	12	200	2	212	0	227	11	2	238	0	9	7	10	13	463
Grand Total	0	36	848	3	884	0	875	47	4	922	0	24	23	38	47	1853
Approach %	0.0	4.1	95.9			0.0	94.9	5.1			0.0	51.1	48.9			
Total %	0.0	1.9	45.8		47.7	0.0	47.2	2.5		49.8	0.0	1.3	1.2		2.5	
Lights	0	33	816		850	0	837	46		883	0	24	22		46	1779
% Lights		94.4	96.2	-	96.2	-	95.7	97.9	-	95.8	-	100.0	95.7	-	97.9	96.0
Buses	0	0	6		9	0	11	0		11	0	0	0		0	20
% Buses		0.0	1.1	-	1.0	-	1.3	0.0		1.2	-	0.0	0.0		0.0	1.1
Single-Unit Trucks	0	2	17	-	19	0	16	0		16	0	0	1	-	٢	36
% Single-Unit Trucks	-	5.6	2.0	-	2.1	-	1.8	0.0	-	1.7	-	0.0	4.3		2.1	1.9
Articulated Trucks	0	0	1		1	0	5	0		5	0	0	0		0	9
% Articulated Trucks	-	0.0	0.1		0.1	-	0.6	0.0		0.5		0.0	0.0		0.0	0.3
Bicycles on Road	0	0	5		5	0	9	1		7	0	0	0		0	12
% Bicycles on Road	,	0.0	0.6		0.6		0.7	2.1	ı	0.8	,	0.0	0.0		0.0	0.6
Pedestrians			,	3			,		4	,		,		38		

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Count Name: Laurel Avenue with Thacker Street TMC Site Code: Start Date: 04/11/2023 Page No: 2

			Thacker Street					Thacker Street	שומ לס.				Laurel Avenue			
ŀ			Eastbound					Westbound		_			Southbound			
Start Lime	U-Turn	Left	Thru	Peds	App. Total	U-Turn	Thru	Right	Peds	App. Total	U-Tum	Left	Right	Peds	App. Total	Int. Total
8:00 AM	0	2	44	-	46	0	39	-	0	40	0	4	8	1	4	06
8:15 AM	0	0	49	0	49	0	39	3	0	42	0	0	~	-	-	92
8:30 AM	0	0	47	0	47	0	38	2	0	40	0	2	2	0	4	91
8:45 AM	0	-	34	0	35	0	30	4	0	34	0	0	-	5	F	20
Total	0	e	174	~	177	0	146	10	0	156	0	e	7	7	10	343
Approach %	0.0	1.7	98.3			0.0	93.6	6.4			0.0	30.0	70.0			•
Total %	0.0	0.9	50.7	ı	51.6	0.0	42.6	2.9	ı	45.5	0.0	0.9	2.0	·	2.9	
PHF	0.000	0.375	0.888	ı	0.903	0.000	0.936	0.625	,	0.929	0.000	0.375	0.583		0.625	0.932
Lights	0	e	169		172	0	134	10		144	0	e	7		10	326
% Lights		100.0	97.1		97.2		91.8	100.0		92.3		100.0	100.0		100.0	95.0
Buses	0	0	~		1	0	~	0		-	0	0	0		0	2
% Buses		0.0	0.6		0.6		0.7	0.0		0.6		0.0	0.0		0.0	0.6
Single-Unit Trucks	0	0	4		4	0	7	0		7	0	0	0		0	11
% Single-Unit Trucks	-	0.0	2.3	-	2.3	-	4.8	0.0	-	4.5	-	0.0	0.0		0.0	3.2
Articulated Trucks	0	0	0	-	0	0	3	0		3	0	0	0		0	3
% Articulated Trucks		0.0	0.0		0.0		2.1	0.0		1.9		0.0	0.0		0.0	0.9
Bicycles on Road	0	0	0	-	0	0	1	0	-	+	0	0	0		0	٢
% Bicycles on Road	-	0.0	0.0		0.0		0.7	0.0		0.6	-	0.0	0.0		0.0	0.3
Pedestrians			-	1	-		-		0	-	-			7	-	
% Pedestrians		•	•	100.0		•	•	•				•	•	100.0	•	•

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Count Name: Laurel Avenue with Thacker Street TMC Site Code: Start Date: 04/11/2023 Page No: 3

					Turning	I Movem	ient Pea	Turning Movement Peak Hour Data (4:45 PM)	)ata (4:₄	45 PM)						
			Thacker Street		, <u> </u>			Thacker Street					Laurel Avenue			
Ctort Time			Eastbound					Westbound		_			Southbound			
01411 11116	U-Turn	Left	Thru	Peds	App. Total	U-Turn	Thru	Right	Peds	App. Total	U-Turn	Left	Right	Peds	App. Total	Int. Total
4:45 PM	0	4	55	0	59	0	75	1	1	76	0	4	0	4	4	139
5:00 PM	0	3	47	0	50	0	55	4	0	59	0	0	2	4	2	111
5:15 PM	0	3	51	0	54	0	67	٢	0	68	0	2	+	4	3	125
5:30 PM	0	4	49	0	53	0	62	3	2	65	0	2	3	1	5	123
Total	0	14	202	0	216	0	259	6	3	268	0	8	6	13	14	498
Approach %	0.0	6.5	93.5		-	0.0	96.6	3.4		-	0.0	57.1	42.9			
Total %	0.0	2.8	40.6		43.4	0.0	52.0	1.8		53.8	0.0	1.6	1.2		2.8	
PHF	0.000	0.875	0.918		0.915	0.000	0.863	0.563		0.882	0.000	0.500	0.500		0.700	0.896
Lights	0	13	198		211	0	252	6		261	0	8	5		13	485
% Lights	-	92.9	98.0		97.7		97.3	100.0		97.4	-	100.0	83.3	-	92.9	97.4
Buses	0	0	2	-	2	0	2	0		2	0	0	0		0	4
% Buses		0.0	1.0		0.9		0.8	0.0		0.7		0.0	0.0		0.0	0.8
Single-Unit Trucks	0	-	0		-	0	2	0	,	2	0	0	-	,	-	4
% Single-Unit Trucks		7.1	0.0		0.5		0.8	0.0	ı.	0.7		0.0	16.7	1	7.1	0.8
Articulated Trucks	0	0	0		0	0	0	0	ı	0	0	0	0	ı	0	0
% Articulated Trucks		0.0	0.0	ı	0.0		0.0	0.0	,	0.0		0.0	0.0	,	0.0	0.0
Bicycles on Road	0	0	2	-	2	0	3	0		3	0	0	0	-	0	5
% Bicycles on Road		0.0	1.0		0.9		1.2	0.0	ŀ	1.1		0.0	0.0		0.0	1.0
Pedestrians				0				-	3	-			-	13		
% Pedestrians	-			-		-			100.0	'		-	1	100.0	-	

Count Name: Lee Street with Oakwood Avenue TMC Site Code: Start Date: 04/26/2023 Page No: 1

Kenig Lindgren O'Hara Aboona, Inc. 8575 W. Higgins Rd., Suite 400

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Attrine         Cakwood Avenue           Start Time         U-Turn         Eastbound           4:00 PM         U-Turn         Left         Thru         Right           4:00 PM         0         2         1         0           4:15 PM         0         7         2         1         0           4:15 PM         0         7         2         1         0           4:15 PM         0         7         2         1         0           4:16 PM         0         7         2         1         0         0           4:16 PM         0         7         2         1         0         0         1         0         0         1         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0		Peds			Oakw	Oakwood Avenue Westbound	)				Lee Street	eet					Lee Street			
Leite Leitee Leite Leite Leite Leite Leitee Le					Ň			_			Northbound	nnd					Southbound			
2 3 3 5 7 7 7 7 5 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 - 0 0 0 0 0 - 0 0 - 0	7 1 1 0 2	App. U Total U	U-Turn Le	Left Thru	ı Right	Peds	App. Total	U-Tum	Left	Thru	Right F	Peds A	App. U Total U	U-Tum L	Left Th	Thru Right	ht Peds	App. Total	Int. Total
7 3 3 7 5 7 7 7 7 0 0 0 0 0 0 0 0 0 0 0 0 0 0	- 0 0 - 0 0 0 0 1 0	0 + + 4	e	0	2	2	-	5	0	7	145	7	0	159	0	-	0 0	0	-	168
3 3 1 1 1 1 1 1 1 1 1 1 1 1 1	0 0 0 0 0 0 - 0 0	1	10	0 0	4	2	1	6	0	2	152	5	-	159	0	0	0 0	0	0	175
3         15         0         0         0         0         0         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3	0 - 0 0 0 0 - 0	1	5	0 0	) 2	3	4	5	0	0	151	1	2	152	0	0 (	0 0	0	0	162
15         0         0         0         0         0         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1 <th1< th="">         1         <th1< th=""> <th1< th=""></th1<></th1<></th1<>	7 0 0 0 0 7	4	5	0 0	1	1	3	2	0	3	143	4	1	150	0	0	0 0	0	0	157
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0 1 1 1 1 1 1 1 1 1 1 1 1 1	0 0 - 7	0	1	0 0	) 3	1	3	4	0	0	176	9	. 0	182	0		0 1	1	1	188
0         1           -         0         3           0         7         0           0         5         0           0         5         0           0         18         0           0         3         0           0         1         1           0         2         0           1         1         4           0         2         0           0         1         1           0         1         1           0         1         1           0         1         1           0         1         1           0         1         1           0         1         1           0         0         1           0         1         1           0         1         1           0         1         1           0         1         1           0         1         1           0         1         1           0         1         1           0         1         1	0 ' 0 0	1	1	0 0	9 (	2	1	8	0	3	141	13	. 0	157	0	0 (	0 0	0	0	166
-         -           0         3           0         5           0         5           0         5           0         5           0         3           0         18           0         18           0         0           1         1           0         2           11.6         62.5           0.0         1.7           0.0         1.7           0.0         25.0           0.0         0.0           0.0         0.0           0.0         0.0           0.0         0.0	- 2 -	9	7	0 1	1 15	3	9	19	0	5	627	30	0	662	0		0 1	1	1	689
0         3           0         7           0         5           0         5           0         5           0         6           0         18           0         0           1         0           1         1           1         4           0         2           0         1           1         4           0         1           0         1           0         1           0         1           0         1           0         1           0         1           0         1           0         1           0         1           0         1           0         1           0         1           0         1           0         1           0         1           0         1           0         1           0         1           0         1           0         1           0         1	0		,					,	,									•		,
0         7           0         5           0         5           0         6           0         18           0         0           1         0           1         1           1         4           0         6           1         1           1         4           0         1           1         2           0         1           0         1           0         1           1         2           1         1           1         1           1         1           1         1           1         1           1         1           1         1           1         1           1         1           1         1           1         1           1         1           1         1           1         1           1         1           1         1           1         1           1         1	d	9	5	0 0	0 2	2	-	4	0	9	80	5	+	91	0	0	0 0	2	0	100
0         5           0         3           0         18           0         0           10         2           11         0           11         40           11         40           11         40           11         40           11         40           11         40           11         40           11         40           11         40           11         40           11         40           11         40           11         40           11         40           11         40           11         40           11         40           11         40           11         40           11         40           11         40           11         40           11         40           11         40           11         40           11         40           11         40           11         40           11         40 <td>0</td> <td>1</td> <td>7</td> <td>0 0</td> <td>0 0</td> <td>1</td> <td>1</td> <td>+</td> <td>0</td> <td>9</td> <td>87</td> <td>3</td> <td>0</td> <td>96</td> <td>0</td> <td>0</td> <td>0 0</td> <td>2</td> <td>0</td> <td>104</td>	0	1	7	0 0	0 0	1	1	+	0	9	87	3	0	96	0	0	0 0	2	0	104
0         3           0         18           0         0           0         4           0         2           0         0           1         40           116         62.5           0.0         1.7           0.0         1.7           0.0         30           0.0         75.0           0.0         0.0           0.0         0.0           0.0         0.0           0.0         0.0	0	0	6	0 0	) 2	1	0	3	0	4	111	5	. 0	120	0	0 0	0 0	0	0	129
0         18           0         0           0         4           0         0           1         40           1         40           1         40           0         1.7           0.0         1.7           0.0         1.7           0.0         1.7           0.0         1.7           0.0         1.7           0.0         0.0           0.0         0.0           0.0         0.0           0.0         0.0           0.0         0.0	0	2	5	0 0	1 1	0	2	1	0	3	77	3	0	83	0	0 (	0 0	0	0	89
0         0           0         4           0         4           0         2           0         0         2           1         40         6           11.6         62.5         0.0           0.0         1.7         0.0           0.0         1.7         0.0           0.0         75.0         0.0           0.0         0.0         0.0           0.0         0.0         0.0	2	9	23	0 0	5 5	4	4	9	0	19	355	16	1	390	0	0 0	0 0	4	0	422
0         4           0         2           0         0           1         40           1.6         62.5           0.0         1.7           0.0         30           0.0         75.0           0.0         0           0.0         0           0.0         0           0.0         0           0.0         0	0	0	2	0 0	0 2	0	-	2	0	-	140	9	0	147	0	0	0 0	0	0	151
0 2 0 0 1 40 1.6 62.5 0.0 1.7 0.0 1.7 0.0 30 0.0 75.0 0.0 0.0 8	0	1	6	0 0	) 2	2	1	4	0	0	136	4	-	140	0	0	0 0	0	0	150
0 0 0 6 1 40 1.6 62.5 0.0 1.7 0.0 30 0.0 75.0 0.0 0.0 8	0	0	з	0 0	-	0	-	+	0	2	135	5	0	142	0	0	0 0	0	0	146
0 6 1 40 1.6 62.5 0.0 1.7 0.0 30 0.0 75.0 0.0 0.0	0	2	0	0 0	0 0	+	0	1	0	3	134	5	. 0	142	0	0	0 0	2	0	143
1         40           1.6         62.5           0.0         1.7           0         30           0.0         75.0           0.0         0           0.0         0           0.0         0           0.0         0           0.0         0           0.0         8	0	3	11	0 0	) 5	3	3	8	0	9	545	20	-	571	0	0	0 0	2	0	590
1.6         62.5           0.0         1.7           0         30           0.0         75.0           0.0         0           0.0         0           0.0         0           0.0         0           0.0         8	3	22	64	0 2	2 34	18	22	54	0	42	2118	83	6 2	2243	0	1	0 1	7	2	2363
0.0 1.7 0 30 0.0 75.0 0.0 0.0 0.0 8	4.7	-	-	0.0 3.7	7 63.0	33.3	-	-	0.0	1.9	94.4	3.7	-	- C	0.0 50	50.0 0	0.0 50.0	- 0	-	-
0 30 0.0 75.0 0.0 0.0 0.0 8	0.1		2.7	0.0 0.1	1 1.4	0.8		2.3	0.0	1.8	89.6	3.5	-	94.9 0	0.0 0	0.0 0	0.0 0.0	- 0	0.1	•
0.0 75.0 0 0 0.0 0.0 0 8	0	-	49	0 2	2 34	16		52	0	34	2058	82	-	2174	0	0 0	0 0		0	2275
0.0 0.0	0.0	-	76.6	- 10(	100.0 100.0	0 88.9	-	96.3	-	81.0	97.2	98.8	-	96.9	- 0	0.0	- 0.0	- 0	0.0	96.3
0.0 0.0	0		1	0 0	0 0	1		1	0	0	23	1		24	0	0	0 0		0	26
8 0	0.0		1.6	- 0.	0.0 0.0	5.6		1.9		0.0	1.1	1.2		1.1	- 0	0.0	- 0.0	- 0	0.0	1.1
>	٢		6	0 0	0 0	1		٢	0	4	20	0		24	0	0 0	0 0		0	34
0.0 20.0 0.0	33.3		14.1	-	0.0 0.0	5.6		1.9		9.5	0.9	0.0	1	1.1	0	0.0	- 0.0	-	0.0	1.4
Articulated Trucks 1 2 0	-		4	0 0	0	0		0	0	4	16	0		20	0	0	0 0		0	24
% Articulated 100.0 5.0 0.0 Trucks	33.3		6.3	-	0.0 0.0	0.0		0.0		9.5	0.8	0.0		6.0	0	0.0	- 0.0	-	0.0	1.0
Bicycles on Road 0 0 0	-		-	0	0	0		0	0	0	-	0		-	0	Ŧ	0		2	4

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0.0		•	
	22	100.0	
0.0			
0.0			
0.0		•	
1.6			
·	22	100.0	
33.3		•	
0.0		•	
0.0			
0.0			
% Bicycles on Road	Pedestrians	% Pedestrians	

Count Name: Lee Street with Oakwood Avenue TMC Site Code: Start Date: 04/26/2023 Page No: 3

Kenig Lindgren O'Hara Aboona, Inc. 9575 W. Higgins Rd., Suite 400 enig, Lindgren, O'Hara,

Rosemont, Illinois, United States 60018 (847)518-9990

100.0

100.0

100.0

100.0

% Pedestrians

Count Name: Lee Street with Oakwood Avenue TMC Site Code: Start Date: 04/26/2023 Page No: 4

Kenig, Lindgren, O'Hara, Aboona, Inc. B575 W. Higgins Rd., Suite 400

Rosemont, Illinois, United States 60018 (847)518-9990

			App. Int. Total Total	0 151	0 150	0 146	0 143	0 590		- 0.0	0.000 0.977	0 570	- 96.6	0 8	- 1.4	0 7	- 1.2	0 5	- 0.8	0 0	- 0.0		•
			Peds	0	0	0	2	2						-								2	100.0
	Lee Street	Southbound	Right	0	0	0	0	0	0.0	0.0	0.000	0	-	0		0	•	0		0		•	1
	Lee	South	Thru	0	0	0	0	0	0.0	0.0	0.000	0	•	0		0	•	0		0		•	
			Left	0	0	0	0	0	0.0	0.0	0.000	0	•	0		0	•	0		0		•	
			U-Tum	0	0	0	0	0	0.0	0.0	0.000	0	•	0		0	•	0		0	•		•
			App. Total	147	140	142	142	571		96.8	0.971	554	97.0	8	1.4	5	0.9	4	0.7	0	0.0	•	1
			Peds	0	1	0	0	1		-			-	-		-				-		1	100.0
AM)	Lee Street	Northbound	Right	9	4	5	5	20	3.5	3.4	0.833	20	100.0	0	0.0	0	0.0	0	0.0	0	0.0	•	
(8:00	Lee	Nort	Thru	140	136	135	134	545	95.4	92.4	0.973	528	96.9	8	1.5	5	0.9	4	0.7	0	0.0	•	1
Turning Movement Peak Hour Data (8:00 AM)			Left	1	0	2	3	9	1.1	1.0	0.500	9	100.0	0	0.0	0	0.0	0	0.0	0	0.0	•	
Hour			U-Tum	0	0	0	0	0	0.0	0.0	0.000	0	•	0		0	•	0		0		•	1
Peak			App. Total	2	4	1	1	8	•	1.4	0.500	8	100.0	0	0.0	0	0.0	0	0.0	0	0.0	•	
ment			Peds	1	1	1	0	3														3	100.0
Move	Oakwood Avenue	Westbound	Right	0	2	0	1	3	37.5	0.5	0.375	3	100.0	0	0.0	0	0.0	0	0.0	0	0.0	•	
ning	Oakwo	We	Thru	2	2	1	0	5	62.5	0.8	0.625	5	100.0	0	0.0	0	0.0	0	0.0	0	0.0	•	
Tu			n Left	0	0	0	0	0	0.0	0.0	0.000	0	•	0	•	0	•	0	•	0		•	
			U-Turn	0	0	0	0	0	0.0	0.0	0.000	0	•	0	•	0	•	0	•	0		•	
			App. Total	2	9	3	0	11	•	1.9	0.458	8	72.7	0	0.0	2	18.2	٢	9.1	0	0.0	•	1
	Ø		Peds	0	1	0	2	3					-	-		-						3	100.0
	Oakwood Avenue	Eastbound	Right	0	0	0	0	0	0.0	0.0	0.000	0	-	0	•	0	•	0	•	0		•	•
	Oakwo	Еа	Thru	2	2	1	0	5	45.5	0.8	0.625	5	100.0	0	0.0	0	0.0	0	0.0	0	0.0	•	•
			n Left	0	4	2	0	9	54.5	1.0	0.375	3	50.0	0	0.0	2	33.3	1	16.7	0	0.0	•	•
			U-Tum	0	0	0	0	0	0.0	0.0	0.000	0		0		s 0	•	s 0	•	0		•	
		i	Start Time	8:00 AM	8:15 AM	8:30 AM	8:45 AM	Total	Approach %	Total %	PHF	Lights	% Lights	Buses	% Buses	Single-Unit Trucks	% Single-Unit Trucks	Articulated Trucks	% Articulated Trucks	Bicycles on Road	% Bicycles on Road	Pedestrians	% Pedestrians

Count Name: Lee Street with Thacker Street TMC Site Code: Start Date: 04/25/2023 Page No: 1

Rosemont, Illinois, United States 60018 (847)518-9990 sainkeshavarzi@kloainc.com

			Int. Total	136	161	192	184	673	245	253	218	292	1008		239	248	239	296	1022	276	254	267	242	1039	3742			3609	96.4	55	1.5	47	1.3	30	0.8	-
			App. Total	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0	0	0	0		0.0	0		0	-	0		0		0
			Peds	1	0	0	4	2	0	0	0	2	2		3	1	1	1	9	0	1	0	5	9	19			,			-					
	reet	puno	Right	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0	0	0	0	0.0	0.0	0		0		0		0		0
	Lee Street	Southbound	Thru	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0	0	0	0	0.0	0.0	0		0		0		0		0
			Left	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0	0	0	0	0.0	0.0	0		0		0		0		0
			U-Turn	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0	0	0	0	0.0	0.0	0		0		0		0		0
			App. Total	79	93	96	75	343	148	126	144	146	564		143	123	144	171	581	174	163	165	138	640	2128		56.9	2040	95.9	27	1.3	33	1.6	28	1.3	0
			Peds	0	1	0	0	1	0	0	0	0	0		0	0	0	0	0	0	0	0	0	0	-	ī		,			-					
	treet	puno	Right	6	11	11	10	41	19	12	15	23	69		18	10	13	22	63	22	23	23	29	97	270	12.7	7.2	262	97.0	0	0.0	5	1.9	З	1.1	0
	Lee Street	Northbound	Thru	65	79	77	60	281	122	105	124	113	464	•	115	104	122	134	475	138	122	130	102	492	1712	80.5	45.8	1638	95.7	25	1.5	24	1.4	25	1.5	0
ata			Left	5	3	8	5	21	7	6	5	10	31		10	6	6	15	43	14	18	12	7	51	146	6.9	3.9	140	95.9	2	1.4	4	2.7	0	0.0	0
ient D			U-Turn	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0	0	0	0	0.0	0.0	0		0		0		0		0
rning Movement Data			App. Total	24	25	42	55	146	37	54	29	55	175		34	56	37	68	195	49	46	41	56	192	708		18.9	689	97.3	14	2.0	4	0.6	0	0.0	-
ing N	)		Peds	0	1	2	0	3	0	1	0	2	3		1	2	0	1	4	0	2	2	1	5	15											
Turn		puno	Right	3	3	9	4	16	4	7	6	11	31	•	5	6	3	6	20	7	2	7	4	20	87	12.3	2.3	81	93.1	9	6.9	0	0.0	0	0.0	0
	Thacker Street	Westbound	Thru	21	22	36	51	130	33	47	20	44	144		29	49	34	62	174	42	44	34	52	172	620	87.6	16.6	607	97.9	8	1.3	4	0.6	0	0.0	-
			Left	0	0	0	0	0	0	0	0	0	0		0	1	0	0	1	0	0	0	0	0	÷	0.1	0.0	-	100.0	0	0.0	0	0.0	0	0.0	0
			U-Turn	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0	0	0	0	0.0	0.0	0		0		0	•	0		0
			App. Total	33	43	54	54	184	60	73	45	91	269	•	62	69	58	57	246	53	45	61	48	207	906		24.2	880	97.1	14	1.5	10	1.1	2	0.2	0
			Peds	1	0	0	1	2	2	0	2	0	4		0	0	1	0	1	0	1	0	1	2	6	ī		,						,		
	· Street	puno	Right	0	0	0	1	1	0	0	0	0	0		0	0	0	0	0	0	0	0	0	0	-	0.1	0.0	-	100.0	0	0.0	0	0.0	0	0.0	0
	Thacker Street	Eastbound	Thru	21	34	39	39	133	50	50	30	99	196		43	39	43	41	166	33	30	35	30	128	623	68.8	16.6	609	97.8	9	1.0	7	1.1	۲	0.2	0
			Left	12	6	15	14	50	10	23	15	25	73	•	19	30	15	16	80	20	15	26	18	79	282	31.1	7.5	270	95.7	8	2.8	3	1.1	-	0.4	0
			U-Turn	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0	0	0	0	0.0	0.0	0		0		0		0		0
			Start Time	7:00 AM	7:15 AM	7:30 AM	7:45 AM	Hourly Total	8:00 AM	8:15 AM	8:30 AM	8:45 AM	Hourly Total	*** BREAK ***	4:00 PM	4:15 PM	4:30 PM	4:45 PM	Hourly Total	5:00 PM	5:15 PM	5:30 PM	5:45 PM	Hourly Total	Grand Total	Approach %	Total %	Lights	% Lights	Buses	% Buses	Single-Unit Trucks	% Single-Unit Trucks	Articulated Trucks	% Articulated Trucks	Bicycles on Road

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% Bicycles on Road	Pedestrians	% Pedestrians	

Count Name: Lee Street with Thacker Street TMC Site Code: Start Date: 04/25/2023 Page No: 3

Rosemont, Illinois, United States 60018 (847)518-9990 sainkeshavarzi@kloainc.com

Kenig Lindgren O'Hara Aboona, Inc. 9575 W. Higgins Rd., Suite 400

**VOT** 

(enig, Lindgren, O'Hara, At

Int. Total

App. Total

Peds

Right

Southbound

Lee Street

245

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	Lee Str Southbo	Thru	0	0	0	0	0	0.0	0.0	0.000	0		0		0		0		0			
		Left	0	0	0	0	0	0.0	0.0	0.000	0		0		0		0		0		•	
		U-Tum	0	0	0	0	0	0.0	0.0	0.000	0		0		0		0		0			
		App. Total	148	126	144	146	564		56.0	0.953	532	94.3	8	1.4	12	2.1	12	2.1	0	0.0		
		Peds	0	0	0	0	0		-	-		,	-		,				-		0	
(MA	reet	Right	19	12	15	23	69	12.2	6.8	0.750	69	100.0	0	0.0	0	0.0	0	0.0	0	0.0		
8:00 /	Lee Street Northbound	Thru	122	105	124	113	464	82.3	46.0	0.935	433	93.3	8	1.7	11	2.4	12	2.6	0	0.0		
)ata (i	•	Left	7	6	5	10	31	5.5	3.1	0.775	30	96.8	0	0.0	-	3.2	0	0.0	0	0.0		
lour D		U-Tum	0	0	0	0	0	0.0	0.0	0.000	0		0		0		0		0			
Turning Movement Peak Hour Data (8:00 AM)		App. Total	37	54	29	55	175		17.4	0.795	168	96.0	4	2.3	ю	1.7	0	0.0	0	0.0	-	
ient P		Peds	0	1	0	2	3		-	-			-						-		3	100.0
ovem	Street ound	Right	4	7	6	11	31	17.7	3.1	0.705	30	96.8	1	3.2	0	0.0	0	0.0	0	0.0		
ing M	Thacker Street Westbound	Thru	33	47	20	44	144	82.3	14.3	0.766	138	95.8	3	2.1	е	2.1	0	0.0	0	0.0		
Turn		Left	0	0	0	0	0	0.0	0.0	0.000	0		0		0		0		0			
		U-Turn	0	0	0	0	0	0.0	0.0	0.000	0		0		0		0		0			
		App. Total	60	73	45	91	269		26.7	0.739	262	97.4	4	1.5	2	0.7	-	0.4	0	0.0		
		Peds	2	0	2	0	4			-		,	-		,				-		4	100.0
	r Street ound	Right	0	0	0	0	0	0.0	0.0	0.000	0		0		0		0		0			
	Thacker Street Eastbound	Thru	50	50	30	66	196	72.9	19.4	0.742	194	0.99	٢	0.5	-	0.5	0	0.0	0	0.0		
		Left	10	23	15	25	73	27.1	7.2	0.730	68	93.2	3	4.1	-	1.4	-	1.4	0	0.0		
		U-Turn	0	0	0	0	0	0.0	0.0	0.000	0		0		0		0		0			
		Start Time	8:00 AM	8:15 AM	8:30 AM	8:45 AM	Total	Approach %	Total %	PHF	Lights	% Lights	Buses	% Buses	Single-Unit Trucks	% Single-Unit Trucks	Articulated Trucks	% Articulated Trucks	Bicycles on Road	% Bicycles on Road	Pedestrians	% Pedestrians

Count Name: Lee Street with Thacker Street TMC Site Code: Start Date: 04/25/2023 Page No: 4



Rosemont, Illinois, United States 60018 (847)518-9990 sainkeshavarzi@kloainc.com

Thacker Street	Thacker Street	Thacker Street	r Street					- urnir	Turning Moven	Veme	ent Pe	ak T –	nent Peak Hour Data (4:45 PM)	ata (4	Lee Street	M)					Lee Street			
Eastbound	Eastbound	Eastbound	punoc						Westbound	pu					Northbound	pun					Southbound	<del>D</del>		
U-Turn Left Thru Right Peds App. U-Turn Left	Thru Right Peds App. U-Turn	Right Peds App. U-Turn	Peds App. U-Turn	App. Total U-Turn	U-Turn		-eft		Thru	Right	Peds	App. Total	U-Turn	Left	Thru	Right	Peds	App. Total	U-Turn	Left T	Thru Ri	Right Peds	ls App. Total	Int. Total
0 16 41 0 0 57 0 0	41 0 0 57 0	0 0 57 0	0 57 0	57 0	0		0		62	9	~	68	0	15	134	22	0	171	0	0	0	0	0	296
0 20 33 0 0 53 0 0	33 0 0 53 0	0 0 53 0	0 53 0	53 0	0		0		42	7	0	49	0	14	138	22	0	174	0	0	0	0 0	0	276
0 15 30 0 1 45 0 0	30 0 1 45 0	0 1 45 0	1 45 0	0	0		0		44	2	2	46	0	18	122	23	0	163	0	0	0	0 1	0	254
0 26 35 0 0 61 0 0	35 0 0 61 0	0 0 61 0	0 61 0	61 0	0		0		34	7	2	41	0	12	130	23	0	165	0	0	0	0 0	0	267
0 77 139 0 1 216 0 0	139 0 1 216 0	0 1 216 0	1 216 0	0	0		0		182	22	5	204	0	59	524	90	0	673	0	0	0	0 2	0	1093
0.0 35.6 64.4 0.0 0.0 0.0	64.4 0.0 0.0	0.0 0.0	0.0				0.0		89.2	10.8			0.0	8.8	77.9	13.4			0.0	0.0	0.0	- 0.0		'
0.0 7.0 12.7 0.0 - 19.8 0.0 0.0	12.7 0.0 - 19.8 0.0	0.0 - 19.8 0.0	- 19.8 0.0	0.0	0.0		0.0		16.7	2.0		18.7	0.0	5.4	47.9	8.2		61.6	0.0	0.0	0.0	- 0.0	0.0	'
0.000 0.740 0.848 0.000 - 0.885 0.000 0.000	0.848 0.000 - 0.885 0.000	0.000 - 0.885 0.000	- 0.885 0.000	0.000	0.000		000	-	0.734 0	0.786	-	0.750	0.000	0.819	0.949	0.978	-	0.967	0.000	0.000 0	0.000 0.0	0.000	0.000	0.923
0 75 137 0 - 212 0 0	137 0 - 212 0	0 - 212 0	- 212 0	0	0		0		182	18		200	0	58	514	88		660	0	0	0	- 0	0	1072
- 97.4 98.6 98.1				- 98.1	98.1		,		100.0	81.8		98.0		98.3	98.1	97.8		98.1						98.1
0 1 0 0 - 1 0 0	0 - 1 0	0 - 1 0	- 1 0				0		0	4		4	0	0	5	0		5	0	0	0	- 0	0	10
- 1.3 0.0 0.5	0.0 0.5 -	0.5 -	,	,	,				0.0	18.2		2.0		0.0	1.0	0.0		0.7						0.9
0 1 1 0 - 2 0 0	0 - 2 0	0 - 2 0	- 2 0	2 0	0		0	I	0	0		0	0	-	-	2	,	4	0	0	0	- 0	0	9
- 1.3 0.7 - 0.9	- 0.9 0.9	- 0.9 -	-	-	-	-			0.0	0.0	-	0.0	•	1.7	0.2	2.2		0.6	-	-	-			0.5
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- 0.0 0.7 - 0.5	0.7 - 0.5 -	- 0.5	- 0.5	0.5					0.0	0.0		0.0		0.0	0.8	0.0		0.6					•	0.5
0 0 0 - 0 0 0	0 0 - 0 0	0 0 - 0	- 0 0	0	0		0		0	0		0	0	0	0	0		0	0	0	0	- 0	0	0
- 0.0 0.0 0.0	0.0	-	- 0.0	- 0.0 -	0.0				0.0	0.0		0.0		0.0	0.0	0.0		0.0						0.0
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100.0		- 100.0	- 100.0 -								100.0											100.0	- 0.	'

Kenlg, Lindgren, O'Hara, Aboona, Inc. B575 W. Higgins Rd., Suite 400

9575 W. Higgins Rd., Suite 400 Rosemont, Illinois, United States 60018 (847)518-9990 sainkeshavarzi@kloainc.com

Count Name: Oakland Avenue with Graceland Avenue TMC Site Code: Start Date: 04/11/2023 Page No: 1

Kenig Lindgren, O'Hara Aboona, Inc. 9575 W. Higgins Rd., Suite 400

Rosemont, Illinois, United States 60018 (847)518-9990 sainkeshavarzi@kloainc.com

Count Name: Oakland Avenue with Graceland Avenue TMC Site Code: Start Date: 04/11/2023 Page No: 3

		ŀ	nt. I otal	144	153	145	158	600			0.949	575	95.8	11	1.8	8	1.3	4	0.7	2	0.3		
			-	139 1	143 1	140 1		574 6	-	.7			96.0		1.9 1	7	1.2				0.2 0		
			Total	10	14		152			95.7	3 0.944	551		11				4	0.7	-			
	Avenue		Kight	2	3	2	3	10	1.7	1.7	3 0.833	8	80.0	0	0.0	2	20.0	0	0.0	0	0.0	'	1
	Graceland Avenue		I nru	137	140	138	149	564	98.3	94.0	0.946	543	96.3	11	2.0	5	0.9	4	0.7	1	0.2	•	1
	0		Lett	0	0	0	0	0	0.0	0.0	0.000	0		0	•	0	•	0	•	0	•		
		H	un I-O	0	0	0	0	0	0.0	0.0	0.000	0		0		0	•	0		0	•		1
		App.	Total	0	0	0	0	0		0.0	0.000	0		0		0	•	0	•	0			
			Peds	0	0	0	0	0						-						-		0	1
	Avenue		Kight	0	0	0	0	0	0.0	0.0	0.000	0		0		0		0		0			
ment Peak Hour Data (8:00 AM)	Graceland Avenue		Inru	0	0	0	0	0	0.0	0.0	0.000	0		0		0	-	0		0			
a (8:00		-	Lett	0	0	0	0	0	0.0	0.0	0.000	0		0		0		0		0			
r Data		H	U- I nru	0	0	0	0	0	0.0	0.0	0.000	0		0		0	-	0		0			
Hou			Total	ю	4	٢	0	8		1.3	0.500	8	100.0	0	0.0	0	0.0	0	0.0	0	0.0		
Peak		÷	Peds	-	0	0	0	1		-				-		-			-	-		-	100.0
ment	Drive		Right	0	0	0	0	0	0.0	0.0	0.000	0		0		0		0		0			-
Move	East Access Drive		i nru	0	1	0	0	1	12.5	0.2	0.250 0	+	100.0	0	0.0	0	0.0	0	0.0	0	0.0		
Turning Mover	Ea		Lett	3	3	1	0	7	87.5 1	1.2 (	0.583 0.	7	100.0 10	0	0.0 (	0	0.0	0	0.0	0	0.0		
Tur			O-Ium	0	0	0	0	0	0.0 81	0.0 1	0.000 0.9	0	- 10	0	- 0	0	0	0	- 0	0	0		
																0				0			
			s Total	2	9	4	9	18		3.0	0.750	16	88.9	0	0.0	1	5.6	0	0.0	1	5.6	'	- 0
	Θ		t Peds	2	0	0	0	2		•	- 8			-		-			•	-		2	100.0
	Oakwood Avenue		Kight	2	9	4	5	17	94.4	2.8	0.708	16	94.1	0	0.0	1	5.9	0	0.0	0	0.0		1
	Oakw	Ĭ	I µru	0	0	0	0	0	0.0	0.0	0.000	0	•	0	•	0	•	0	•	0	•	•	1
			Lett	0	0	0	1	٢	5.6	0.2	0.250	0	0.0	0	0.0	0	0.0	0	0.0	1	100.0		
		ŀ	U- I urn	0	0	0	0	0	0.0	0.0	0.000	0		0	•	0		0	•	0			
		Start Time		8:00 AM	8:15 AM	8:30 AM	8:45 AM	Total	Approach %	Total %	PHF	Lights	% Lights	Buses	% Buses	Single-Unit Trucks	% Single-Unit Trucks	Articulated Trucks	% Articulated Trucks	Bicycles on Road	% Bicycles on Road	Pedestrians	% Pedestrians

Kenig Lindgren, O'Hara, Aboona, Inc. Kenig Lindgren O'Hara Aboona, Inc. 9575 W. Higgins Rd., Suite 400

Rosemont, Illinois, United States 60018 (847)518-9990 sainkeshavarzi@kloainc.com

Count Name: Oakland Avenue with Graceland Avenue TMC Site Code: Start Date: 04/11/2023 Page No: 4

		nt. Total	119	163	188	170	640			0.851	627	98.0	6	0.9	5	0.8	+	0.2	+	0.2		,
-		App. Total Int.	118	158	183	162	621 (	-	97.0	0.848 0	609	98.1 9	6	1.0	4	0.6	1	0.2	1	0.2		
		Right A	4	3 1	5 1	2 1	14 6	2.3	2.2 9	0.700 0.	14 6	100.0 9	0	0.0	0	0.0	0	0.0 0	0	0.0		
	Avenue																0					
	Graceland Avenue Southbound		114	155	178	160	607	97.7	94.8	0 0.853	595	98.0	9	1.0	4	0.7	1	0.2	1	0.2	'	'
		n Left	0	0	0	0	0	0.0	0.0	0.000	0	•	0		0	•	0	•	0			'
		U-Turn	0	0	0	0	0	0.0	0.0	0.000	0	'	0	'	0	-	0		0		'	'
		App. Total	0	0	0	0	0	•	0.0	0.000	0		0	•	0	•	0	•	0		•	'
	_	Peds	0	0	1	0	1			-			-		-				-		-	100.0
(	Graceland Avenue Northbound	Right	0	0	0	0	0	0.0	0.0	0.000	0		0	•	0	•	0	•	0			•
45 PN	Gracela Nort	Thru	0	0	0	0	0	0.0	0.0	0.000	0		0	•	0	•	0	•	0			•
ta (4:∠		Left	0	0	0	0	0	0.0	0.0	0.000	0		0		0	•	0	•	0			
ur Dat		U-Tum	0	0	0	0	0	0.0	0.0	0.000	0		0		0		0		0			
ment Peak Hour Data (4:45 PM)		App. Total	0	0	0	2	2	-	0.3	0.250	2	100.0	0	0.0	0	0.0	0	0.0	0	0.0		
it Pea		Peds	2	2	3	0	7			-			-						-		7	100.0
emen	ss Drive	Right	0	0	0	0	0	0.0	0.0	0.000	0		0		0	-	0		0			
Turning Mover	East Access Drive Westbound	Thru	0	0	0	0	0	0.0	0.0	0.000	0		0		0		0		0			
urning		Left	0	0	0	2	2	100.0	0.3	0.250	2	100.0	0	0.0	0	0.0	0	0.0	0	0.0		
F		U-Tum	0	0	0	0	0	0.0	0.0	0.000	0		0		0	-	0		0			
-		App. Total	-	5	5	6	17		2.7	0.708	16	94.1	0	0.0	1	5.9	0	0.0	0	0.0		
		Peds	0	1	2	0	3		-	-		,	-		-			-	-		c	100.0
	venue	Įt	1	5	5	6	17	100.0	2.7	0.708	16	94.1	0	0.0	1	5.9	0	0.0	0	0.0		
	Oakwood Avenue Fasthound	Thru	0	0	0	0	0	0.0	0.0	0.000	0		0		0	-	0		0			
	0	Left	0	0	0	0	0	0.0	0.0	0.000	0		0		0	-	0		0			
		U-Turn	0	0	0	0	0	0.0	0.0	0.000 0	0		0		0	-	0		0			
-										0					ucks	nit	ucks	rucks	toad	Road	s	uns
		Start Time	4:45 PM	5:00 PM	5:15 PM	5:30 PM	Total	Approach %	Total %	PHF	Lights	% Lights	Buses	% Buses	Single-Unit Trucks	% Single-Unit Trucks	Articulated Trucks	% Articulated Trucks	Bicycles on Road	% Bicycles on Road	Pedestrians	% Pedestrians

Kenig, Lindgren, Ottara, Aboona, Inc. B575 W. Higgins Rd., Suite 400

9575 W. Higgins Rd., Suite 400 Rosemont, Illinois, United States 60018 (847)518-9990

Count Name: Thacker Street with 1st Avenue TMC Site Code: Start Date: 04/11/2023 Page No: 1

			Thacker Street		_		)	C Thacker Street					1st Avenue		_	
Start Time			Eastbound					Westbound					Southbound		_	
	U-Turn	Left	Thru	Peds	App. Total	U-Turn	Thru	Right	Peds	App. Total	U-Turn	Left	Right	Peds	App. Total	Int. Total
7:00 AM	0	5	30	0	35	0	30	5	0	35	0	1	3	1	4	74
7:15 AM	0	5	44	0	49	0	34	5	0	39	0	3	5	0	8	96
7:30 AM	0	8	49	0	57	0	46	12	0	58	0	3	3	0	9	121
7:45 AM	0	23	68	0	91	0	42	21	0	63	0	2	-	0	З	157
Hourly Total	0	41	191	0	232	0	152	43	0	195	0	6	12	-	21	448
8:00 AM	0	6	61	0	70	0	44	11	0	55	0	e	9	0	6	134
8:15 AM	0	6	59	0	68	0	52	4	0	56	0	4	7	4	11	135
8:30 AM	0	9	52	-	58	0	44	2	0	46	0	-	2	2	3	107
8:45 AM	0	9	69	0	75	0	50	7	0	52	0	4	2	1	6	133
Hourly Total	0	30	241	-	271	0	190	19	0	209	0	12	17	7	29	509
*** BREAK ***	'		'								,		,	1	,	
4:00 PM	0	8	57	ç	65	0	64	-	-	65	0	0	7	1	6	139
4:15 PM	0	14	51	0	65	0	71	5	0	76	0	2	5	0	7	148
4:30 PM	0	9	70	0	76	0	59	5	0	64	0	9	-	0	7	147
4:45 PM	0	5	51	c	56	0	73	5	0	78	0	3	3	c	9	140
Hourly Total	0	33	229	9	262	0	267	16	1	283	0	13	16	4	29	574
5:00 PM	0	6	59	0	68	0	06	~	0	91	0	4	8	0	12	171
5:15 PM	0	5	72	0	17	0	11	9	0	83	0	4	7	С	11	171
5:30 PM	0	10	52	1	62	0	73	-	0	74	0	4	3	ŝ	7	143
5:45 PM	0	7	47	2	54	0	71	-	0	72	0	3	4	5	7	133
Hourly Total	0	31	230	3	261	0	311	6	0	320	0	15	22	11	37	618
Grand Total	0	135	891	10	1026	0	920	87	1	1007	0	49	67	23	116	2149
Approach %	0.0	13.2	86.8	-	-	0.0	91.4	8.6		-	0.0	42.2	57.8	-	-	
Total %	0.0	6.3	41.5		47.7	0.0	42.8	4.0		46.9	0.0	2.3	3.1		5.4	
Lights	0	129	865	ı	994	0	881	85		966	0	45	61	ı	106	2066
% Lights	-	95.6	97.1		96.9	-	95.8	97.7		95.9	-	91.8	91.0		91.4	96.1
Buses	0	2	10		12	0	19	2		21	0	0	1		1	34
% Buses	-	1.5	1.1		1.2		2.1	2.3		2.1		0.0	1.5		0.9	1.6
Single-Unit Trucks	0	2	12	-	14	0	12	0	-	12	0	3	5	-	8	34
% Single-Unit Trucks		1.5	1.3		1.4		1.3	0.0		1.2		6.1	7.5		6.9	1.6
Articulated Trucks	0	۲	2		е	0	е	0		е	0	-	0		1	7
% Articulated Trucks	-	0.7	0.2	-	0.3	-	0.3	0.0	-	0.3	-	2.0	0.0	-	0.9	0.3
Bicycles on Road	0	1	2	-	3	0	5	0	-	5	0	0	0	-	0	8
% Bicycles on Road		0.7	0.2		0.3		0.5	0.0		0.5		0.0	0.0		0.0	0.4
Pedestrians	-	-		10	-		-		1		-	-	-	23	-	

Kenig Lindgren, O'Hara, Aboona, Inc. Kenig Lindgren O'Hara Aboona, Inc. 9575 W. Higgins Rd., Suite 400

Rosemont, Illinois, United States 60018 (847)518-9990

Count Name: Thacker Street with 1st Avenue TMC Site Code: Start Date: 04/11/2023 Page No: 2

					Turning	Turning Movement Peak Hour Data (8:00 AM)	ent Pea	Ik Hour E	Data (8:	00 AM)						
			Thacker Street			L	-	Thacker Street					1st Avenue			
Otort Time			Eastbound			_		Westbound					Southbound		_	
	U-Turn	Left	Thru	Peds	App. Total	U-Turn	Thru	Right	Peds	App. Total	U-Turn	Left	Right	Peds	App. Total	Int. Total
8:00 AM	0	6	61	0	70	0	44	11	0	55	0	3	6	0	6	134
8:15 AM	0	6	59	0	68	0	52	4	0	56	0	4	7	4	11	135
8:30 AM	0	9	52	1	58	0	44	2	0	46	0	٢	2	2	3	107
8:45 AM	0	9	69	0	75	0	50	2	0	52	0	4	2	1	9	133
Total	0	30	241	-	271	0	190	19	0	209	0	12	17	7	29	509
Approach %	0.0	11.1	88.9		-	0.0	90.9	9.1		-	0.0	41.4	58.6		-	
Total %	0.0	5.9	47.3		53.2	0.0	37.3	3.7		41.1	0.0	2.4	3.3		5.7	
PHF	0.000	0.833	0.873	-	0.903	0.000	0.913	0.432	-	0.933	0.000	0.750	0.607	-	0.659	0.943
Lights	0	29	230		259	0	181	17		198	0	10	14		24	481
% Lights	-	96.7	95.4		95.6		95.3	89.5		94.7	-	83.3	82.4		82.8	94.5
Buses	0	0	4		4	0	5	2		7	0	0	-	-	1	12
% Buses		0.0	1.7		1.5	-	2.6	10.5		3.3	-	0.0	5.9		3.4	2.4
Single-Unit Trucks	0	1	5		6	0	3	0		3	0	2	2		4	13
% Single-Unit Trucks	-	3.3	2.1		2.2		1.6	0.0	-	1.4		16.7	11.8		13.8	2.6
Articulated Trucks	0	0	2		2	0	1	0		1	0	0	0		0	3
% Articulated Trucks		0.0	0.8		0.7		0.5	0.0		0.5		0.0	0.0	,	0.0	0.6
Bicycles on Road	0	0	0		0	0	0	0	-	0	0	0	0		0	0
% Bicycles on Road		0.0	0.0		0.0		0.0	0.0		0.0		0.0	0.0		0.0	0.0
Pedestrians				1	-				0	-				7	-	
% Pedestrians				100.0									ľ	100.0		

Kenig Lindgren, O'Hara, Aboona, Inc. 8575 W. Higgins Rd., Suite 400

Rosemont, Illinois, United States 60018 (847)518-9990

Count Name: Thacker Street with 1st Avenue TMC Site Code: Start Date: 04/11/2023 Page No: 3

			Thacker Street				· · · · · · · · · · · · · · · · · · ·	Thacker Street		···· · · · · · · · · · · · · · · · · ·	_		1st Avenue			
į			Eastbound					Westbound					Southbound			
Start Lime	U-Tum	Left	Thru	Peds	App. Total	U-Turn	Thru	Right	Peds	App. Total	U-Turn	Left	Right	Peds	App. Total	Int. Total
4:45 PM	0	5	51	3	56	0	73	5	0	78	0	3	е	3	9	140
5:00 PM	0	6	59	0	68	0	06	-	0	91	0	4	8	0	12	171
5:15 PM	0	5	72	0	77	0	17	9	0	83	0	4	7	3	11	171
5:30 PM	0	10	52	-	62	0	73	-	0	74	0	4	е	ę	7	143
Total	0	29	234	4	263	0	313	13	0	326	0	15	21	6	36	625
Approach %	0.0	11.0	89.0			0.0	96.0	4.0			0.0	41.7	58.3			
Total %	0.0	4.6	37.4	ı	42.1	0.0	50.1	2.1	ı	52.2	0.0	2.4	3.4	ı	5.8	
PHF	0.000	0.725	0.813	ı	0.854	0.000	0.869	0.542	,	0.896	0.000	0.938	0.656		0.750	0.914
Lights	0	26	231		257	0	303	13		316	0	15	20		35	809
% Lights	-	89.7	98.7		97.7		96.8	100.0		96.9	-	100.0	95.2		97.2	97.3
Buses	0	0	-	-	1	0	2	0	-	2	0	0	0		0	3
% Buses	•	0.0	0.4		0.4		0.6	0.0		0.6		0.0	0.0	-	0.0	0.5
Single-Unit Trucks	0	-	<b>~</b>		2	0	9	0		6	0	0	4		4	6
% Single-Unit Trucks	-	3.4	0.4	-	0.8	-	1.9	0.0	-	1.8	-	0.0	4.8	-	2.8	1.4
Articulated Trucks	0	1	0		1	0	1	0		1	0	0	0		0	2
% Articulated Trucks	-	3.4	0.0		0.4		0.3	0.0		0.3		0.0	0.0		0.0	0.3
Bicycles on Road	0	1	-	-	2	0	٢	0	-	-	0	0	0	-	0	3
% Bicycles on Road		3.4	0.4		0.8		0.3	0.0		0.3		0.0	0.0		0.0	0.5
Pedestrians	-	-		4	-				0	-		-		6	-	
% Pedestrians				100.0	•									100.0	1	•

Count Name: Thacker Street with Graceland Avenue TMC Site Code: Start Date: 04/11/2023 Page No: 1

> Rosemont, Illinois, United States 60018 (847)518-9990 sainkeshavarzi@kloainc.com

Kenig Lindgren O'Hara Aboona, Inc. 9575 W. Higgins Rd., Suite 400

nig, Lindgren, O'Hara, A

	Int. Total	145	169	232	265	811	249	263	256	271	1039		250	294	277	251	1072	306	328	290	250	1174	4096			3951	96.5	65	1.6	49	1.2	16	0.4	15
	App. Total	84	95	130	152	461	132	180	154	161	627	-	123	199	149	140	611	173	191	165	136	665	2364		57.7	2283	96.6	39	1.6	26	1.1	12	0.5	4
	Peds	0	-	5	2	00	2	2	0	8	12	-	0	0	-	1	2	ę	3	2	2	10	32							-	,			
Avenue	Right	18	18	16	20	72	17	25	19	21	82	-	21	39	28	31	119	40	33	31	27	131	404	17.1	9.9	387	95.8	10	2.5	5	1.2	-	0.2	-
Graceland Avenue Southbound	Thru	62	73	105	124	364	102	138	119	123	482	-	94	150	117	66	460	125	146	121	98	490	1796	76.0	43.8	1736	96.7	25	1.4	21	1.2	11	0.6	e
-	Left	4	4	6	8	25	13	17	16	17	63	-	8	10	4	10	32	8	12	13	11	44	164	6.9	4.0	160	97.6	4	2.4	0	0.0	0	0.0	0
	U-Tum	0	0	0	0	0	0	0	0	0	0	-	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0	0		0		0		0		0
	App. Total	0	0	-	0	-	0	0	0	0	0	-	0	0	0	0	0	0	0	0	0	0	-		0.0	0	0.0	0	0.0	0	0.0	0	0.0	-
	Peds	0	0	0	1	-	2	0	0	0	2	-	2	1	1	-	5	2	2	0	5	6	17						-	-	ı			
Avenue	Right	0	0	+	0	-	0	0	0	0	0	-	0	0	0	0	0	0	0	0	0	0	-	100.0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	-
Gracelend Avenue Northbound	Thru	0	0	0	0	0	0	0	0	0	0	-	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0	0		0		0		0		0
-	Left	0	0	0	0	0	0	0	0	0	0	-	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0	0		0		0		0		0
	U-Turn	0	0	0	0	0	0	0	0	0	0	-	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0	0		0		0		0		0
	App. Total	25	31	44	51	151	52	32	39	45	168	-	65	52	56	53	226	66	71	66	63	266	811		19.8	777	95.8	16	2.0	9	1.1	з	0.4	9
	Peds	-	2	-	c	7	-	0	0	1	2	-	0	1	2	2	5	c	4	c	c	13	27						-	-	ı			
Street	Right	0	0	0	0	0	0	0	0	0	0	-	0	0	0	0	0	0	0	0	-	-	-	0.1	0.0	0	0.0	0	0.0	0	0.0	0	0.0	-
Thacker Street Westhound	Thru	20	21	38	44	123	40	28	30	31	129	-	52	38	43	43	176	49	58	48	48	203	631	77.8	15.4	603	95.6	12	1.9	8	1.3	е	0.5	5
	Left	5	10	9	7	28	12	4	6	14	39	-	13	14	13	10	50	17	13	18	14	62	179	22.1	4.4	174	97.2	4	2.2	1	0.6	0	0.0	0
	U-Turn	0	0	0	0	0	0	0	0	0	0	-	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0	0		0		0		0		0
	App.	36	43	57	62	198	65	51	63	65	244	-	62	43	72	58	235	67	66	59	51	243	920		22.5	891	96.8	10	1.1	14	1.5	-	0.1	4
	Peds	0	-	-	-	co	2	3	0	0	5	-	2	0	0	0	2	S	1	3	4	11	21	ı			ı		-	-				
itreet Ind	Right	6	1	9	6	35	6	9	6	12	36	-	5	7	11	7	30	15	15	8	14	52	153	16.6	3.7	150	98.0	1	0.7	2	1.3	0	0.0	0
Thacker Street Fastbound	Thru	27	32	51	53	163	56	45	54	53	208	-	57	36	61	51	205	52	51	51	37	191	767	83.4	18.7	741	96.6	6	1.2	12	1.6	-	0.1	4
	Left	0	0	0	0	0	0	0	0	0	0	-	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0	0		0		0		0		0
	U-Tum	0	0	0	0	0	0	0	0	0	0	-	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0	0		0		0		0		0
	Start Time	7:00 AM	7:15 AM	7:30 AM	7:45 AM	Hourly Total	8:00 AM	8:15 AM	8:30 AM	8:45 AM	Hourly Total	*** BREAK ***	4:00 PM	4:15 PM	4:30 PM	4:45 PM	Hourly Total	5:00 PM	5:15 PM	5:30 PM	5:45 PM	Hourly Total	Grand Total	Approach %	Total %	Lights	% Lights	Buses	% Buses	Single-Unit Trucks	% Single-Unit Trucks	Articulated Trucks	% Articulated Trucks	Bicycles on Road

### Attachment 13

### Page 124 of 209

Count Name: Thacker Street with Graceland Avenue TMC Site Code: Start Date: 04/11/2023 Page No: 3

Rosemont, Illinois, United States 60018 (847)518-9990 sainkeshavarzi@kloainc.com

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Kenig, Lindgren, O'Hara, Ab

		Int. Total	249	263	256	271	1039			0.958	991	95.4	24	2.3	15	1.4	7	0.7	2	0.2		
		App. Total	132	180	154	161	627		60.3	0.871	600	95.7	15	2.4	9	1.0	5	0.8	1	0.2		
		Peds	2	2	0	8	12		-			,	-		,						12	100.0
	Avenue ound	Right	17	25	19	21	82	13.1	7.9	0.820	76	92.7	4	4.9	2	2.4	0	0.0	0	0.0		
	Graceland Avenue Southbound	Thru	102	138	119	123	482	76.9	46.4	0.873	463	96.1	6	1.9	4	0.8	5	1.0	1	0.2		
		Left	13	17	16	17	63	10.0	6.1	0.926	61	96.8	2	3.2	0	0.0	0	0.0	0	0.0		
		U-Tum	0	0	0	0	0	0.0	0.0	0.000	0		0		0		0		0			
	-	App. Total	0	0	0	0	0		0.0	0.000	0		0	-	0	-	0		0			
		Peds	2	0	0	0	2					,	-		,				-		2	100.0
AM)	Gracelend Avenue Northbound	Right	0	0	0	0	0	0.0	0.0	0.000	0		0		0		0		0			•
Turning Movement Peak Hour Data (8:00 AM)	Graceler North	Thru	0	0	0	0	0	0.0	0.0	0.000	0		0		0		0		0			
Data		Left	0	0	0	0	0	0.0	0.0	0.000	0		0		0		0	•	0			•
Hour		U-Turn	0	0	0	0	0	0.0	0.0	0.000	0		0	•	0		0		0			
Peak		App. Total	52	32	39	45	168		16.2	0.808	160	95.2	5	3.0	2	1.2	1	0.6	0	0.0		•
nent		Peds	1	0	0	1	2						-						-		2	100.0
Mover	Thacker Street Westbound	Right	0	0	0	0	0	0.0	0.0	0.000	0		0		0	•	0	•	0	•		
ning l	Thack	Thru	40	28	30	31	129	76.8	12.4	0.806	123	95.3	3	2.3	2	1.6	٢	0.8	0	0.0		
Tur		n Left	12	4	6	14	39	23.2	3.8	0.696	37	94.9	2	5.1	0	0.0	0	0.0	0	0.0		•
,		U-Turn	0	0	0	0	0	0.0	0.0	0.000	0	•	0	•	0		0		0		•	'
		App. Total	65	51	63	65	244	•	23.5	0.938	231	94.7	4	1.6	7	2.9	-	0.4	1	0.4		
		Peds	2	3	0	0	5		-			,	-								5	100.0
	Thacker Street Eastbound	Right	6	9	6	12	36	14.8	3.5	0.750	36	100.0	0	0.0	0	0.0	0	0.0	0	0.0	'	•
	Thac	F	56	45	54	53	208	85.2	20.0	0.929	195	93.8	4	1.9	7	3.4	1	0.5	1	0.5		•
		m Left	0	0	0	0	0	0.0	0.0	0.000	0		0		0	•	0	•	0			•
		U-Tum	0	0	0	0	0	0.0	0.0	0.000	0	'	0	'	ks 0	'	ks 0	•	ad 0	'	'	-
		Start Time	8:00 AM	8:15 AM	8:30 AM	8:45 AM	Total	Approach %	Total %	PHF	Lights	% Lights	Buses	% Buses	Single-Unit Trucks	% Single-Unit Trucks	Articulated Trucks	% Articulated Trucks	Bicycles on Road	% Bicycles on Road	Pedestrians	% Pedestrians

Count Name: Thacker Street with Graceland Avenue TMC Site Code: Start Date: 04/11/2023 Page No: 4

Rosemont, Illinois, United States 60018 (847)518-9990 sainkeshavarzi@kloainc.com

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Kenig, Lindgren, O'Hara, Ab

ment Peak Hour Data (4:45 PM)	Graceland Avenue Graceland Avenue Southbound Southbound	-Turn Left Thru Right Peds App. U-Turn Left Thru Right Peds App. Int. Total	0 0 0 0 1 0 0 10 99 31 1 140 251	0 0 0 0 2 0 0 8 125 40 3 173 306	0 0 0 0 2 0 0 12 146 33 3 191 328	0 0 0 0 0 0 0 0 13 121 31 2 165 290	0 0 0 0 5 0 0 43 491 135 9 669 1175	0.0 0.0 0.0 0.0 0.0 6.4 73.4 20.2	0.0 0.0 0.0 0.0 - 0.0 0.0 3.7 41.8 11.5 - 56.9 -	000 0.000 0.000 0.000 - 0.000 0.000 0.827 0.841 0.844 - 0.876 0.896	0 0 0 0 - 0 0 43 481 131 - 655   1147		0 0 0 0 - 0 0 0 5 2 - 7 9	0.0 1.0 1.5 - 1.0 0.8	0 0 0 0 - 0 0 0 4 1 - 5 12	0.0 0.8 0.7 - 0.7 1.0	0 0 0 0 - 0 0 0 1 0 - 1 2	0.0 0.2 0.0 - 0.1 0.2	0 0 0 0 - 0 0 0 0 1 - 1 5	0.0 0.0 0.1 - 0.1 0.4		100.0 100.0
	enue nd							20.2 -	1.5 -	.844	131 -	- 0.76		1.5 -	- 1		- 0		1 -			
	aceland Av Southbou		66	125	146	121							5	1.0	4	0.8	1	0.2	0	0.0	-	
	Ū		10										0	0.0	0	0.0	0	0.0	0	0.0	-	
		J-Tum	0	0	0	0	0	0.0	0.0		0		0		0		0		0		-	
	1		0	0	0	0	0		0.0		0		0		0		0		0			
		Peds	-	2	2	0	5		-				-		-				-		5	100.0
(Mc	Avenue	Right	0	0	0	0	0	0.0	0.0	0.000	0		0		0		0		0			
4:45 F	Gracelend Northbo	Thru	0	0	0	0	0	0.0	0.0	0.000	0		0		0		0		0			•
)ata (		Left	0	0	0	0	0	0.0	0.0	0.000	0	•	0		0		0		0		•	
Hour [		U-Turn	0	0	0	0	0	0.0	0.0	0.000	0	•	0	-	0		0		0			
Peak I		App. Total	53	66	71	99	256		21.8	0.901	247	96.5	٢	0.4	4	1.6	۲	0.4	3	1.2	•	
nent F		Peds	2	3	4	3	12		-			-	-		-				-		12	100.0
Jover	Thacker Street Westbound	Right	0	0	0	0	0	0.0	0.0	0.000	0	•	0	•	0	•	0	•	0		•	•
Turning Move	Thack	Thru	43	49	58	48	198	77.3	16.9	0.853	190	96.0	0	0.0	4	2.0	1	0.5	3	1.5	•	•
Tur		Left	10	17	13	18	58	22.7	4.9	0.806	57	98.3	1	1.7	0	0.0	0	0.0	0	0.0	•	•
		U-Turn	0	0	0	0	0	0.0	0.0	0.000	0	•	0	•	0	•	0	•	0		•	•
		App. Total	58	67	66	59	250	•	21.3	0.933	245	98.0	1	0.4	3	1.2	0	0.0	1	0.4	•	
		Peds	0	3	1	3	7			- (			-								7	100.0
	Thacker Street Eastbound	Right	7	15	15	8	45	18.0	3.8	3 0.750	44	97.8	0	0.0	1	2.2	0	0.0	0	0.0	•	•
	Thac	Thru	51	52	51	51	205	82.0	17.4	0 0.986	201	98.0	1	0.5	2	1.0	0	0.0	1	0.5	•	•
		urn Left	0	0	0	0	0	0.0 0.0	0.0	000 0.000	0	•	0		0	•	0	•	0		•	•
		U-Turn	0	0	0	0	0	0.0	0.0	0.000	0	•	0		cks 0	it .	cks 0	' T	ad 0	- u		- SI
		Start Time	4:45 PM	5:00 PM	5:15 PM	5:30 PM	Total	Approach %	Total %	PHF	Lights	% Lights	Buses	% Buses	Single-Unit Trucks	% Single-Unit Trucks	Articulated Trucks	% Articulated Trucks	Bicycles on Road	% Bicycles on Road	Pedestrians	% Pedestrians

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Count Name: Thacker Street with Graceland Court Access Drive TMC Site Code: Start Date: 04/11/2023 Page No: 1

			Int. Total	80	82	112	137	411	118	115	107	129	469		136	133	134	140	543	150	170	129	131	580	2003			1932	96.5	31	1.5	27	1.3	5	0.2	8	0.4	,	
		-	App. Total	7	2	5	5	19	3	3	4	3	13		3	2	2	3	10	1	1	1	2	5	47	,	2.3	47	100.0	0	0.0	0	0.0	0	0.0	0	0.0	,	
	: Drive	-	Peds	0	1	3	3	7	2	5	4	3	14	-	1	0	2	2	5	1	6	3	3	13	39	T	ı	ı	-		ı	-		-	-		ı	39	100.0
	Graceland Court Access Drive	Southbound	Right	4	0	2	2	8	2	2	3	2	6	-	0	2	0	0	2	0	1	1	0	2	21	44.7	1.0	21	100.0	0	0.0	0	0.0	0	0.0	0	0.0		
	Gracela	ہ -	Left	e	2	3	3	11	1	1	1	1	4	-	3	0	2	3	8	1	0	0	2	3	26	55.3	1.3	26	100.0	0	0.0	0	0.0	0	0.0	0	0.0	1	
		1	U-Turn	0	0	0	0	0	0	0	0	0	0	-	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0	0	-	0		0		0	-	0	,		
			App. Total	38	39	57	67	201	54	53	49	54	210	-	74	81	64	80	299	89	95	74	79	337	1047		52.3	1001	95.6	22	2.1	13	1.2	4	0.4	7	0.7	,	
ata			Peds	0	0	0	1	1	0	0	0	0	0	-	0	0	0	0	0	0	0	0	0	0	-		ī	ı	-			-			-		ı	1	100.0
rning Movement Data	Thacker Street	Westbound	Right	~	0	2	3	9	3	0	1	3	7	-	2	2	4	0	8	2	2	3	2	6	30	2.9	1.5	29	96.7	0	0.0	1	3.3	0	0.0	0	0.0	,	
ng Move	⊢ )	ī	Thru	37	39	55	64	195	51	53	48	51	203	-	72	79	59	80	290	87	93	71	77	328	1016	97.0	50.7	971	95.6	22	2.2	12	1.2	4	0.4	7	0.7		
Turni		1	U-Turn	0	0	0	0	0	0	0	0	0	0	-	0	0	1	0	1	0	0	0	0	0	٢	0.1	0.0	-	100.0	0	0.0	0	0.0	0	0.0	0	0.0		
		-	App. Total	35	41	50	65	191	61	59	54	72	246	-	59	50	68	57	234	60	74	54	50	238	606		45.4	884	97.2	6	1.0	14	1.5	1	0.1	1	0.1	,	
			Peds	0	0	0	1	1	0	0	0	0	0	-	0	0	0	0	0	0	0	0	0	0	-			ı	-		,	-					ı	1	100.0
	Thacker Street	Eastbound	Thru	34	41	50	64	189	59	56	53	70	238	-	58	49	67	57	231	59	71	54	50	234	892	98.1	44.5	867	97.2	6	1.0	14	1.6	1	0.1	1	0.1	,	
	F		Left	-	0	0	1	2	2	3	-	2	8	-	1	1	1	0	3	1	3	0	0	4	17	1.9	0.8	17	100.0	0	0.0	0	0.0	0	0.0	0	0.0		
		1	U-Turn	0	0	0	0	0	0	0	0	0	0	-	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0	0	-	0		0		0	-	0	,		
		Start Time		7:00 AM	7:15 AM	7:30 AM	7:45 AM	Hourly Total	8:00 AM	8:15 AM	8:30 AM	8:45 AM	Hourly Total	*** BREAK ***	4:00 PM	4:15 PM	4:30 PM	4:45 PM	Hourly Total	5:00 PM	5:15 PM	5:30 PM	5:45 PM	Hourly Total	Grand Total	Approach %	Total %	Lights	% Lights	Buses	% Buses	Single-Unit Trucks	% Single-Unit Trucks	Articulated Trucks	% Articulated Trucks	Bicycles on Road	% Bicycles on Road	Pedestrians	% Pedestrians

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Count Name: Thacker Street with Graceland Court Access Drive TMC Site Code: Start Date: 04/11/2023 Page No: 2

					Turning	1 Movem	ient Pea	Turning Movement Peak Hour Data (8:00 AM)	)ata (8:1	00 AM)						
			Thacker Street		<b></b>		-	Thacker Street				Gracela	Graceland Court Access Drive	; Drive		
Ctort Time			Eastbound					Westbound					Southbound			
ORALLITTE	U-Turn	Left	Thru	Peds	App. Total	U-Turn	Thru	Right	Peds	App. Total	U-Tum	Left	Right	Peds	App. Total	Int. Total
8:00 AM	0	2	59	0	61	0	51	3	0	54	0	1	2	2	3	118
8:15 AM	0	3	56	0	59	0	53	0	0	53	0	1	2	5	3	115
8:30 AM	0	1	53	0	54	0	48	1	0	49	0	1	3	4	4	107
8:45 AM	0	2	70	0	72	0	51	Э	0	54	0	+	2	ŝ	3	129
Total	0	8	238	0	246	0	203	7	0	210	0	4	6	14	13	469
Approach %	0.0	3.3	96.7		-	0.0	96.7	3.3		-	0.0	30.8	69.2			
Total %	0.0	1.7	50.7		52.5	0.0	43.3	1.5		44.8	0.0	0.9	1.9		2.8	
PHF	0.000	0.667	0.850	-	0.854	0.000	0.958	0.583	-	0.972	0.000	1.000	0.750	-	0.813	0.909
Lights	0	8	226		234	0	192	7		199	0	4	6		13	446
% Lights		100.0	95.0		95.1	-	94.6	100.0		94.8	-	100.0	100.0		100.0	95.1
Buses	0	0	4		4	0	7	0	-	7	0	0	0	-	0	11
% Buses	-	0.0	1.7		1.6	-	3.4	0.0		3.3		0.0	0.0		0.0	2.3
Single-Unit Trucks	0	0	7		7	0	e	0		3	0	0	0		0	10
% Single-Unit Trucks	-	0.0	2.9	-	2.8	-	1.5	0.0	-	1.4	-	0.0	0.0	-	0.0	2.1
Articulated Trucks	0	0	٢		1	0	1	0		1	0	0	0		0	2
% Articulated Trucks		0.0	0.4		0.4	-	0.5	0.0		0.5	-	0.0	0.0		0.0	0.4
Bicycles on Road	0	0	0		0	0	0	0		0	0	0	0		0	0
% Bicycles on Road		0.0	0.0		0.0		0.0	0.0		0.0		0.0	0.0		0.0	0.0
Pedestrians			-	0				-	0	-				14		
% Pedestrians				1		I								100.0		

Count Name: Thacker Street with Graceland Court Access Drive TMC Site Code: Start Date: 04/11/2023 Page No: 3

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Site C Start I Page		Graceland Co	Sou									0	
		Grace		Left	3	١	0	0	4	66.7	0.7	0.333	•
				U-Turn	0	0	0	0	0	0.0	0.0	0.000	c
	45 PM)			App. Total	80	89	95	74	338		57.4	0.889	000
60018 ainc.com	)ata (4:₄			Peds	0	0	0	0	0		,		
Rosemont, Illinois, United States 60018 (847)518-9990 sainkeshavarzi@kloainc.com	k Hour D	Thacker Street	Westbound	Right	0	2	2	3	7	2.1	1.2	0.583	1
rt, Illinois, Ul 990 sainkes	ent Pea			Thru	80	87	93	71	331	97.9	56.2	0.890	100
Rosemor (847)518-9:	urning Movement Peak Hour Data (4:45 PM			U-Turn	0	0	0	0	0	0.0	0.0	0.000	c
	Turning	)		App. Total	57	60	74	54	245		41.6	0.828	010
				Peds	0	0	0	0	0				
		Thacker Street	Eastbound	Thru	57	59	71	54	241	98.4	40.9	0.849	000
				Left	0	٢	3	0	4	1.6	0.7	0.333	
				-Turn	0	0	0	0	0	0.0	0.0	000.0	

Thacker Street	)	~	Thacker Street				Gracela	Graceland Court Access Drive	s Drive		
Eastbound			Westbound					Southbound			
Left Thru Peds App. Total	U-Turn	Thru	Right	Peds	App. Total	U-Turn	Left	Right	Peds	App. Total	Int. Total
0 57 0 57	0	80	0	0	80	0	3	0	2	3	140
59 0 60	0	87	2	0	89	0	1	0	1	1	150
3 71 0 74	0	93	2	0	95	0	0	1	9	1	170
0 54 0 54	0	71	3	0	74	0	0	1	3	1	129
4 241 0 245	0	331	7	0	338	0	4	2	12	6	589
1.6 98.4 -	0.0	97.9	2.1			0.0	66.7	33.3			
0.7 40.9 - 41.6	0.0	56.2	1.2		57.4	0.0	0.7	0.3		1.0	-
0.333 0.849 - 0.828	0.000	0.890	0.583	-	0.889	0.000	0.333	0.500		0.500	0.866
4 239 - 243	0	321	7		328	0	4	2		6	577
100.0 99.2 - 99.2	•	97.0	100.0		97.0	•	100.0	100.0		100.0	98.0
0 1 - 1	0	2	0	-	2	0	0	0		0	3
0.0 0.4 - 0.4		0.6	0.0		0.6		0.0	0.0		0.0	0.5
0 1 - 1	0	5	0		5	0	0	0		0	6
0.0 0.4 - 0.4	•	1.5	0.0	-	1.5		0.0	0.0		0.0	1.0
0 - 0 0	0	٢	0		1	0	0	0		0	1
0.0 - 0.0	•	0.3	0.0		0.3	•	0.0	0.0		0.0	0.2
0 - 0 0	0	2	0	-	2	0	0	0		0	2
0.0 - 0.0 0.0		0.6	0.0		0.6		0.0	0.0		0.0	0.3
- 0 -				0	-	•	-	•	12	-	
•	•	I		1	1				100.0		

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Count Name: Thacker+with+Alley TMC Site Code: Start Date: 04/26/2023 Page No: 1

			Int. Total	114	119	116	109	458	146	121	129	118	514		55	73	107	122	357	130	117	103	121	471	1800			1742	96.8	28	1.6	19	1.1	7	0.4	4
			Total Ir	0	3	5	4	12	8	4	4	8	24		2	2	3	4	11	2	9	з	2	13	60	,	3.3	58	96.7	1	1.7	1	1.7	0	0.0	0
			Peds	0	1	0	3	4	1	3	1	1	9		2	2	2	2	8	1	1	0	-	3	21							-				
	Alley	ning	Right	0	2	4	3	6	3	2	4	4	13		2	-	2	3	8	0	4	2	-	7	37	61.7	2.1	36	97.3	1	2.7	0	0.0	0	0.0	0
	Public Alley		Thru	0	0	0	0	0	0	1	0	0	1		0	0	0	0	0	0	0	0	0	0	-	1.7	0.1	+	100.0	0	0.0	0	0.0	0	0.0	0
			Left	0	1	1	1	3	5	1	0	4	10		0	-	1	٢	3	2	2	-	-	9	22	36.7	1.2	21	95.5	0	0.0	1	4.5	0	0.0	0
			U-Turn	0	0	0	0	0	0	0	0	0	0	•	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0	0		0	•	0		0		0
			Total	2	3	2	2	6	2	0	1	3	6		5	5	9	3	19	2	7	7	0	16	50		2.8	49	98.0	0	0.0	1	2.0	0	0.0	0
			Peds	0	0	1	0	-	0	0	0	0	0		0	0	0	0	0	0	0	0	2	2	с						-	-				
	Alley	nino	Right	1	1	0	0	2	0	0	0	1	1		2	5	4	2	13	1	e	з	0	7	23	46.0	1.3	23	100.0	0	0.0	0	0.0	0	0.0	0
	Public Alley		Thru	0	0	0	0	0	-	0	1	0	2	•	1	0	0	0	1	0	-	-	0	2	5	10.0	0.3	4	80.0	0	0.0	1	20.0	0	0.0	0
)ata			Left	1	2	2	2	7	٢	0	0	2	3	•	2	0	2	٢	5	1	з	е	0	7	22	44.0	1.2	22	100.0	0	0.0	0	0.0	0	0.0	0
ning Movement Data			U-Turn	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0	0	0	0	0.0	0.0	0		0		0		0		0
loven		~~~~	Total	46	63	58	55	222	63	50	61	59	233		16	23	40	57	136	49	48	29	54	180	771		42.8	745	96.6	12	1.6	10	1.3	4	0.5	0
Ving N	1		Peds	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0	0	0	0							-				
Turr	Ħ	ninor	Right	1	2	3	3	6	з	2	3	7	15		0	-	0	-	2	5	4	-	с	13	39	5.1	2.2	38	97.4	٢	2.6	0	0.0	0	0.0	0
	Thacker Stree	110200	Thru	45	59	54	48	206	60	45	56	51	212		16	22	40	56	134	43	44	28	50	165	717	93.0	39.8	692	96.5	11	1.5	10	1.4	4	0.6	0
			Left	0	2	٢	4	7	0	3	2	1	9	•	0	0	0	0	0	+	0	0	-	2	15	1.9	0.8	15	100.0	0	0.0	0	0.0	0	0.0	0
			U-Turn	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0	0	0	0	0.0	0.0	0		0		0		0		0
		~~~~	Total	66	50	51	48	215	73	67	63	48	251	•	32	43	58	58	191	77	56	64	65	262	919		51.1	890	96.8	15	1.6	7	0.8	ю	0.3	4
			Peds	0	0	0	1	1	1	0	0	1	2		0	-	0	0	1	0	0	0	0	0	4	ī		,	ī		-	-	,			
	Thacker Street		Right	3	1	3	2	6	-	0	2	3	9	•	0	0	0	0	0	2	0	4	С	6	24	2.6	1.3	23	95.8	0	0.0	0	0.0	0	0.0	-
	Thack(Ldol	Thru	60	47	48	43	198	70	63	60	45	238	•	31	39	55	56	181	71	56	59	61	247	864	94.0	48.0	837	96.9	15	1.7	9	0.7	З	0.3	e
			Left	3	2	0	3	8	2	4	1	0	7	•	1	4	3	2	10	3	0	-	-	5	30	3.3	1.7	29	96.7	0	0.0	1	3.3	0	0.0	0
			U-Turn	0	0	0	0	0	0	0	0	0	0	•	0	0	0	0	0	٢	0	0	0	-	-	0.1	0.1	-	100.0	0	0.0	0	0.0	0	0.0	0
		Start Time		4:00 PM	4:15 PM	4:30 PM	4:45 PM	Hourly Total	5:00 PM	5:15 PM	5:30 PM	5:45 PM	Hourly Total	*** BREAK ***	7:00 AM	7:15 AM	7:30 AM	7:45 AM	Hourly Total	8:00 AM	8:15 AM	8:30 AM	8:45 AM	Hourly Total	Grand Total	Approach %	Total %	Lights	% Lights	Buses	% Buses	Single-Unit Trucks	% Single-Unit Trucks	Articulated Trucks	% Articulated Trucks	Bicycles on Road

0.0		0.3	4.2		0.4	0.0	0.0	0.0		0.0	0.0	0.0	0.0		0.0		0.0	0.0	0.0		0.0	0.2
•	'			4					0					3						21		
•	1			100.0								-	-	100.0		•	•	-	-	100.0	-	

Count Name: Thacker+with+Alley TMC Site Code: Start Date: 04/26/2023 Page No: 3

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								Turr	√ Ding	loven	lent F	eak F	Turning Movement Peak Hour Data (4:45 PM	Data (4:45	PM)		-							
			Thacker Street Eastbound	r Street ound					Thacker Stree Westbound	Thacker Street Westbound					Public Alley Northbound	Alley					Public Alley Southbound	Alley ound			
Start Time	U-Turn	Left	Thru	Right	Peds	App. Total	U-Turn	Left	Thru	Right	Peds	App. Total	U-Tum	Left	Thru	Right	Peds	App. Total	U-Tum	Left	Thru	Right	Peds	App. Total	Int. Total
4:45 PM	0	з	43	2	1	48	0	4	48	3	0	55	0	2	0	0	0	2	0	1	0	3	3	4	109
5:00 PM	0	2	70	٢	1	73	0	0	60	3	0	63	0	1	1	0	0	2	0	5	0	3	1	8	146
5:15 PM	0	4	63	0	0	67	0	ю	45	2	0	50	0	0	0	0	0	0	0	٢	-	2	c	4	121
5:30 PM	0	٢	60	2	0	63	0	2	56	3	0	61	0	0	1	0	0	1	0	0	0	4	1	4	129
Total	0	10	236	5	2	251	0	6	209	11	0	229	0	3	2	0	0	5	0	7	1	12	8	20	505
Approach %	0.0	4.0	94.0	2.0			0.0	3.9	91.3	4.8			0.0	60.0	40.0	0.0			0.0	35.0	5.0	60.0			
Total %	0.0	2.0	46.7	1.0	1	49.7	0.0	1.8	41.4	2.2		45.3	0.0	0.6	0.4	0.0		1.0	0.0	1.4	0.2	2.4	1	4.0	
PHF	0.000	0.625	0.843	0.625		0.860	0.000	0.563	0.871	0.917		0.909	0.000	0.375	0.500	0.000		0.625	0.000	0.350	0.250	0.750		0.625	0.865
Lights	0	10	232	5		247	0	6	204	11		224	0	3	2	0		5	0	7	1	12		20	496
% Lights		100.0	98.3	100.0	,	98.4		100.0	97.6	100.0	,	97.8		100.0	100.0		,	100.0		100.0	100.0	100.0		100.0	98.2
Buses	0	0	2	0	-	2	0	0	+	0	-	1	0	0	0	0	-	0	0	0	0	0	-	0	3
% Buses		0.0	0.8	0.0		0.8		0.0	0.5	0.0		0.4		0.0	0.0			0.0		0.0	0.0	0.0		0.0	0.6
Single-Unit Trucks	0	0	0	0		0	0	0	2	0		2	0	0	0	0		0	0	0	0	0	-	0	2
% Single-Unit Trucks		0.0	0.0	0.0		0.0		0.0	1.0	0.0		0.9		0.0	0.0			0.0		0.0	0.0	0.0		0.0	0.4
Articulated Trucks	0	0	0	0		0	0	0	2	0		2	0	0	0	0		0	0	0	0	0		0	2
% Articulated Trucks		0.0	0.0	0.0		0.0		0.0	1.0	0.0		0.9		0.0	0.0			0.0		0.0	0.0	0.0		0.0	0.4
Bicycles on Road	0	0	2	0		2	0	0	0	0		0	0	0	0	0		0	0	0	0	0	-	0	2
% Bicycles on Road		0.0	0.8	0.0		0.8		0.0	0.0	0.0		0.0		0.0	0.0			0.0		0.0	0.0	0.0		0.0	0.4
Pedestrians			,		2	'	,				0						0						8		
% Pedestrians			•		100.0		•	•															100.0		

Count Name: Thacker+with+Alley TMC Site Code: Start Date: 04/26/2023 Page No: 4

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701

Kenig, Lindgren, O'Hara, Ab

Peds App. Total U-Turn Left Thacker Street 0 77 0 1 43 5 0 56 0 0 44 4 0 64 0 0 28 1 0 65 0 0 28 1 3 0 65 0 1 50 3 3 0 262 0 1 50 3 3 3 2 3
- 55.6 0.0 0.4 - 0.851 0.000 0.500
0 '
0 -
- 2 0 0 - 0.8 - 0.0
- 1 0 0 - 0.4 - 0.0
- 0 0 0 - 0
0
•

Study Name 1st Avenue with Public Alley TMC Start Date Wednesday, April 26, 2023 4:00 PM End Date Thursday, April 27, 2023 8:45 AM Site Code Site Code

Report Summary

				East	bound					West	bound					South	bound					Southea	astbour	d				Cros	swalk
Time Period	Class.									BR							HR					BL	HR			Total		destria	Tota
Peak 1	Lights	0	0	2	6	8	12	0	9	0	0	9	6	0	0	3	0	3	2	0	0	0	0	0	0	20	EB	0	0
Specified Period	%	0%	0%	67%	100%	89%	92%	0%	90%	0%	0%	90%	100%	0%	0%	100%	0%	100%	67%	0%	0%	0%	0%	0%	0%	91%		0%	
7:30 AM - 8:30 AM	Buses	0	0	0	0	0	1	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	WB	0	0
One Hour Peak	%	0%	0%	0%	0%	0%	8%	0%	10%	0%	0%	10%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	5%		0%	
7:30 AM - 8:30 AM	ngle-Unit Truc	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	SB	0	0
	%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%		0%	
	ticulated True	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	SEB	0	0
	%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%		0%	
	icycles on Roa	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1		0	0
	%	0%	0%	33%	0%	11%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	33%	0%	0%	0%	0%	0%	0%	5%			
	Total	0	0	3	6	9	13	0	10	0	0	10	6	0	0	3	0	3	3	0	0	0	0	0	0	22			
	PHF	0	0	0.38	0.75	0.75	0.46	0	0.62	0	0	0.62	0.75	0	0	0.25	0	0.25	0.38	0	0	0	0	0	0	0.61			
	Approach %					41%	59%					45%	27%					14%	14%					0%	0%				

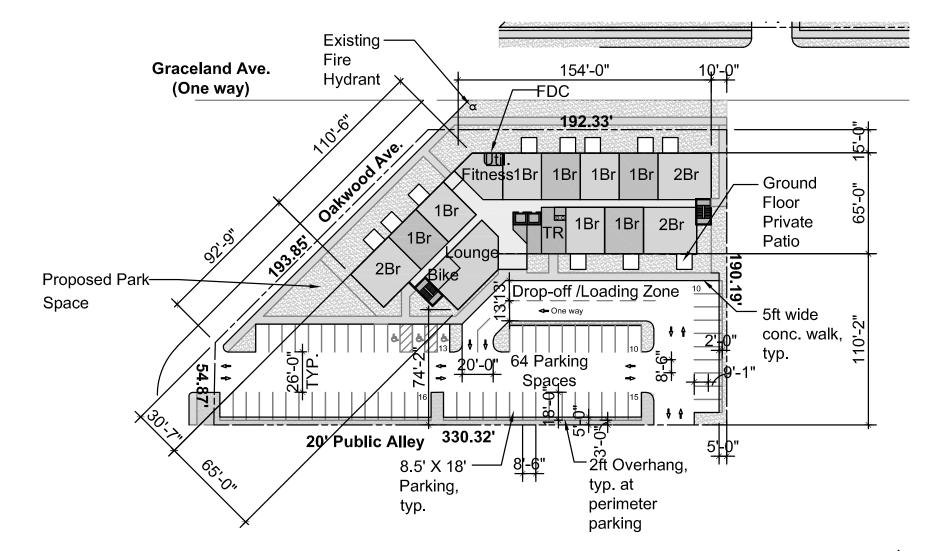
Study Name 1st Avenue with Public Alley TMC Start Date Wednesday, April 26, 2023 4:00 PM End Date Thursday, April 27, 2023 8:45 AM Site Code Site Code

Report Summary

				East	bound					West	bound					South	bound					Southea	astboun	d				Cros	swalk
Time Period	Class.									BR							HR					BL	HR			Total		destria	Tota
Peak 1	Lights	0	0	2	6	8	12	0	9	0	0	9	6	0	0	3	0	3	2	0	0	0	0	0	0	20	EB	0	0
Specified Period	%	0%	0%	67%	100%	89%	92%	0%	90%	0%	0%	90%	100%	0%	0%	100%	0%	100%	67%	0%	0%	0%	0%	0%	0%	91%		0%	
7:30 AM - 8:30 AM	Buses	0	0	0	0	0	1	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	WB	0	0
One Hour Peak	%	0%	0%	0%	0%	0%	8%	0%	10%	0%	0%	10%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	5%		0%	
7:30 AM - 8:30 AM	ngle-Unit Truc	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	SB	0	0
	%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%		0%	
	ticulated True	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	SEB	0	0
	%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%		0%	
	icycles on Roa	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1		0	0
	%	0%	0%	33%	0%	11%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	33%	0%	0%	0%	0%	0%	0%	5%			
	Total	0	0	3	6	9	13	0	10	0	0	10	6	0	0	3	0	3	3	0	0	0	0	0	0	22			
	PHF	0	0	0.38	0.75	0.75	0.46	0	0.62	0	0	0.62	0.75	0	0	0.25	0	0.25	0.38	0	0	0	0	0	0	0.61			
	Approach %					41%	59%					45%	27%					14%	14%					0%	0%				

Site Plan

	Gross Floor A relling Area ies	vrea = = =	57,542 s 46,794 s 4	
TOTAL:	Deei Ueit	-	Deei	Deutsine
	Resi Unit	-	Resi	Parking
0.0	Ratio Cou	int	Ratio	
2Br	27% 15		1.5	
1Br Total	<u>73% 41</u> 56		1	41 64 req'd
	••			01104 5
Overall:	61 Standard Total: 64 Pa			-
		arking Prov	vided (64	-
	Total: 64 Pa	arking Prov	vided (64	-
Gross Floor	Total: 64 Pa	537 sf per fl	vided (64	-
Gross Floor Dwelling Ar	Total: 64 Pa	537 sf per fl	vided (64	-
Gross Floor Dwelling Ar	Total: 64 Pa Area = 14,5 ea = 9,09	537 sf per fl 00 sf per fl	vided (64	-
Gross Floor Dwelling Ar	Total: 64 Pa Area = 14,5 ea = 9,09 Resi Units	537 sf per fl 00 sf per fl	vided (64	-
Gross Floor Dwelling Ar Per Floor:	Total: 64 Pa Area = 14,5 ea = 9,09 Resi Units Ratio Count	537 sf per fl 00 sf per fl	vided (64	-





Site Plan - South Site

FitzGerald

Graceland and Thacker 1

Des Plaines, Illinois | June 13, 2023

Attachment 13

Page 138 of 209

ITE Trip Generation Summary Sheets

Land Use: 221 Multifamily Housing (Mid-Rise)

Description

Mid-rise multifamily housing includes apartments and condominiums located in a building that has between four and 10 floors of living space. Access to individual dwelling units is through an outside building entrance, a lobby, elevator, and a set of hallways.

Multifamily housing (low-rise) (Land Use 220), multifamily housing (high-rise) (Land Use 222), offcampus student apartment (mid-rise) (Land Use 226), and mid-rise residential with ground-floor commercial (Land Use 231) are related land uses.

Land Use Subcategory

Data are presented for two subcategories for this land use: (1) not close to rail transit and (2) close to rail transit. A site is considered close to rail transit if the walking distance between the residential site entrance and the closest rail transit station entrance is ½ mile or less.

Additional Data

For the six sites for which both the number of residents and the number of occupied dwelling units were available, there were an average of 2.5 residents per occupied dwelling unit.

For the five sites for which the numbers of both total dwelling units and occupied dwelling units were available, an average of 96 percent of the total dwelling units were occupied.

The technical appendices provide supporting information on time-of-day distributions for this land use. The appendices can be accessed through either the ITETripGen web app or the trip generation resource page on the ITE website (https://www.ite.org/technical-resources/topics/trip-and-parking-generation/).

It is expected that the number of bedrooms and number of residents are likely correlated to the trips generated by a residential site. To assist in future analysis, trip generation studies of all multifamily housing should attempt to obtain information on occupancy rate and on the mix of residential unit sizes (i.e., number of units by number of bedrooms at the site complex).

The sites were surveyed in the 1990s, the 2000s, the 2010s, and the 2020s in Alberta (CAN), California, District of Columbia, Florida, Georgia, Illinois, Maryland, Massachusetts, Minnesota, Montana, New Jersey, New York, Ontario (CAN), Oregon, Utah, and Virginia.

Source Numbers

168, 188, 204, 305, 306, 321, 818, 857, 862, 866, 901, 904, 910, 949, 951, 959, 963, 964, 966, 967, 969, 970, 1004, 1014, 1022, 1023, 1025, 1031, 1032, 1035, 1047, 1056, 1057, 1058, 1071, 1076



Multifamily Housing (Mid-Rise) Not Close to Rail Transit (221)

Vehicle Trip Ends vs: Dwelling Units

On a: Weekday

Setting/Location: General Urban/Suburban

Number of Studies: 11

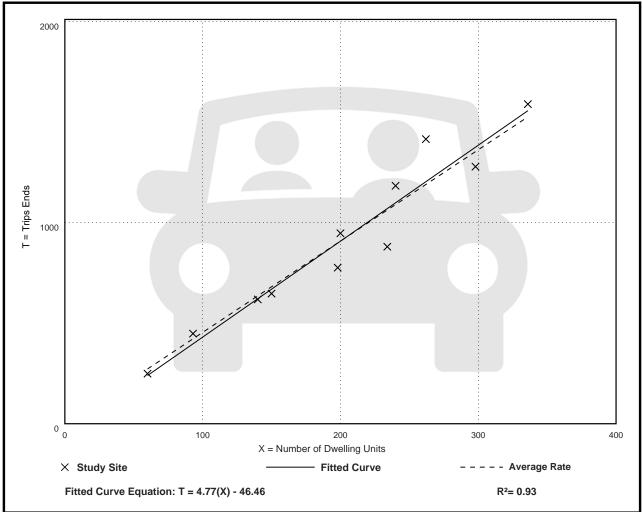
Avg. Num. of Dwelling Units: 201

Directional Distribution: 50% entering, 50% exiting

Vehicle Trip Generation per Dwelling Unit

Average Rate	Range of Rates	Standard Deviation
4.54	3.76 - 5.40	0.51

Data Plot and Equation





Attachment 13

Multifamily Housing (Mid-Rise) Not Close to Rail Transit (221)

Vehicle Trip Ends vs: Dwelling Units

On a: Weekday,

Peak Hour of Adjacent Street Traffic,

One Hour Between 7 and 9 a.m.

Setting/Location: General Urban/Suburban

Number of Studies: 30

Avg. Num. of Dwelling Units: 173

Directional Distribution: 23% entering, 77% exiting

Vehicle Trip Generation per Dwelling Unit

Average Rate	Range of Rates	Standard Deviation
0.37	0.15 - 0.53	0.09

300 × 200 T = Trips Ends × 100 × XX × X × 0 0 100 200 300 400 500 X = Number of Dwelling Units × Study Site - Fitted Curve - Average Rate Fitted Curve Equation: T = 0.44(X) - 11.61 R²= 0.91

Data Plot and Equation



Attachment 13

Page 142 of 209

Multifamily Housing (Mid-Rise) Not Close to Rail Transit (221)

Vehicle Trip Ends vs: Dwelling Units

On a: Weekday,

Peak Hour of Adjacent Street Traffic,

One Hour Between 4 and 6 p.m.

Setting/Location: General Urban/Suburban

Number of Studies: 31

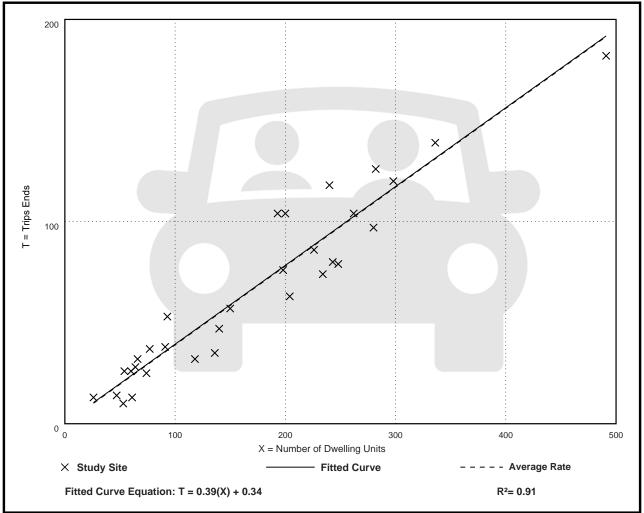
Avg. Num. of Dwelling Units: 169

Directional Distribution: 61% entering, 39% exiting

Vehicle Trip Generation per Dwelling Unit

Average Rate	Range of Rates	Standard Deviation
0.39	0.19 - 0.57	0.08

Data Plot and Equation





Attachment 13

Level of Service Criteria

LEVEL OF SERVICE CRITERIA

Signalized	Intersections		
Level of Service	Interpretat	ion	Average Control Delay (seconds per vehicle)
А	Favorable progression. Most ve green indication and travel throug stopping.	_	≤10
В	Good progression, with more ve Level of Service A.	chicles stopping than for	> 10 - 20
С	Individual cycle failures (i.e., one are not able to depart as a result during the cycle) may begin to ap stopping is significant, although through the intersection without s	t of insufficient capacity pear. Number of vehicles many vehicles still pass	> 20 - 35
D	The volume-to-capacity ratio is hi is ineffective or the cycle length is stop and individual cycle failures	s too long. Many vehicles	> 35 - 55
Е	Progression is unfavorable. The vehigh and the cycle length is long. are frequent.		> 55 - 80
F	The volume-to-capacity ratio is very poor, and the cycle length is clear the queue.		> 80
Unsignalize	ed Intersections		
	Level of Service	Average Total 1	Delay (sec/veh)
	А	0 -	10
	В	> 10	- 15
	С	> 15	- 25
	D	> 25	- 35
	Е	> 35	- 50
	F	> 5	50
Source: Highv	vay Capacity Manual, 6th Edition.		

Capacity Analysis Summary Sheets Existing Weekday Morning Peak Hour

Lanes, Volumes, Timings 1: Graceland Avenue & Thacker Street

												<u> </u>
	٦	-	\rightarrow	1	-	•	1	Ť	1	1	Ŧ	-
Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		12		ኘ	↑					<u>۲</u>	∱ ⊅	
Traffic Volume (vph)	0	208	36	39	134	0	0	0	0	63	482	82
Future Volume (vph)	0	208	36	39	134	0	0	0	0	63	482	82
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Storage Length (ft)	0		0	25		0	0		0	0		0
Storage Lanes	0		0	1		0	0		0	1		0
Taper Length (ft)	25			25			25			25		
Lane Util. Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.95	0.95
Frt		0.980									0.978	
Flt Protected				0.950						0.950		
Satd. Flow (prot)	0	1772	0	1719	1810	0	0	0	0	1752	3381	0
Flt Permitted				0.328						0.950		
Satd. Flow (perm)	0	1772	0	594	1810	0	0	0	0	1752	3381	0
Right Turn on Red			Yes			Yes			Yes			Yes
Satd. Flow (RTOR)		8									27	
Link Speed (mph)		30			30			30			30	
Link Distance (ft)		192			276			397			453	
Travel Time (s)		4.4			6.3			9.0			10.3	
Peak Hour Factor	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96
Heavy Vehicles (%)	0%	6%	0%	5%	5%	0%	0%	0%	0%	3%	4%	7%
Shared Lane Traffic (%)	070	070	070	570	570	070	070	070	070	370	70	170
Lane Group Flow (vph)	0	255	0	41	140	0	0	0	0	66	587	0
Turn Type	U	NA	0	Perm	NA	0	0	0	0	Perm	NA	U
Protected Phases		4		I CIIII	8					I CIIII	6	
Permitted Phases		4		8	0					6	0	
Detector Phase		4		8	8					6	6	
Switch Phase		4		0	0					0	0	
Minimum Initial (s)		1.0		10.0	10.0					10.0	10.0	
Minimum Split (s)		22.5		22.5	22.5					22.5	22.5	
Total Split (s)		45.0		45.0	45.0					75.0	75.0	
Total Split (%)		45.0 37.5%		45.0 37.5%	37.5%					62.5%	62.5%	
Yellow Time (s)		4.5		4.5	4.5					4.5	4.5	
All-Red Time (s)		4.5		4.5	4.5					4.5	4.5	
Lost Time Adjust (s)		0.0		0.0	0.0					0.0	0.0	
3		6.0		6.0	6.0					6.0	0.0 6.0	
Total Lost Time (s)		0.0		0.0	0.0					0.0	0.0	
Lead/Lag												
Lead-Lag Optimize?		Mono		Mono	Nono							
Recall Mode		None		None	None					C-Min	C-Min	
Act Effct Green (s)		22.3		22.3	22.3					85.7	85.7	
Actuated g/C Ratio		0.19		0.19	0.19					0.71	0.71	
v/c Ratio		0.76		0.37	0.42					0.05	0.24	
Control Delay		59.1		51.0	46.9					6.3	6.5	
Queue Delay		0.0		0.0	0.0					0.0	0.0	
Total Delay		59.1		51.0	46.9					6.3	6.5	
LOS		E		D	D					A	A	
Approach Delay		59.1			47.8						6.4	
Approach LOS		E		22	D					14	A	
Queue Length 50th (ft)		183		33	112					14	69	
Queue Length 95th (ft)		257		70	177					34	115	

AMEX 23-101/23-102 - Apartment Development - Des Plaines 12:20 pm 04/26/2023 Existing Weekday Morning Peak Hoxynchro 11 Report BSM,sa Page 1

Lanes, Volumes, Timings <u>1: Graceland Avenue & Thacker Street</u>

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Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Internal Link Dist (ft)		112			196			317			373	
Turn Bay Length (ft)				25								
Base Capacity (vph)		581		193	588					1251	2423	
Starvation Cap Reductn		0		0	0					0	0	
Spillback Cap Reductn		0		0	0					0	0	
Storage Cap Reductn		0		0	0					0	0	
Reduced v/c Ratio		0.44		0.21	0.24					0.05	0.24	
Intersection Summary												
Area Type:	Other											
Cycle Length: 120												
Actuated Cycle Length: 1												
Offset: 81.6 (68%), Refer	enced to phas	e 2: and	6:SBTL, S	Start of G	reen							
Natural Cycle: 45												
Control Type: Actuated-C	oordinated											
Maximum v/c Ratio: 0.76												
Intersection Signal Delay					tersectior							
Intersection Capacity Utili	zation 52.4%			IC	U Level	of Service	A					
Analysis Period (min) 15												
Splits and Phases: 1: 0	Graceland Ave	nue & Th	acker Str	reet								
1												

	→ Ø4	
	45 s	
▼ Ø6 (R) 75 s	₹ø8	
75 s	45 s	

AMEX 23-101/23-102 - Apartment Development - Des Plaines 12:20 pm 04/26/2023 Existing Weekday Morning Peak H&yrnchro 11 Report BSM,sa Page 2

06/08/2023

Lanes, Volumes, Timings 2: Lee Street & Thacker Street

2. 200 01/001 4 11/40	≯		~	~	+	•		•	*	1	I	1
	-	-	•	•	-	<u>`</u>	7		1	*	+	*
Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations	<u> </u>	<u>†</u>			<u>†</u>	1		ፈቀው				
Traffic Volume (vph)	73	196	0	0	144	31	31	464	69	0	0	0
Future Volume (vph)	73	196	0	0	144	31	31	464	69	0	0	0
Ideal Flow (vphpl)	1900	2000	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Storage Length (ft)	25		0	0		0	0		0	0		0
Storage Lanes	1		0	0		1	0		0	0		0
Taper Length (ft)	25			25			25			25		
Lane Util. Factor	1.00	1.00	1.00	1.00	1.00	1.00	0.91	0.91	0.91	1.00	1.00	1.00
Frt						0.850		0.982				
Flt Protected	0.950							0.997				
Satd. Flow (prot)	1687	1980	0	0	1827	1568	0	4794	0	0	0	0
Flt Permitted	0.408							0.997				
Satd. Flow (perm)	724	1980	0	0	1827	1568	0	4794	0	0	0	0
Right Turn on Red			Yes			Yes			Yes			Yes
Satd. Flow (RTOR)						59		21				
Link Speed (mph)		30			30			30			30	
Link Distance (ft)		219			1072			519			495	
Travel Time (s)		5.0			24.4			11.8			11.3	
Peak Hour Factor	0.86	0.93	0.86	0.86	0.86	0.86	0.86	0.86	0.86	0.86	0.86	0.86
Heavy Vehicles (%)	7%	1%	0%	0%	4%	3%	3%	7%	0%	0%	2%	2%
Shared Lane Traffic (%)												
Lane Group Flow (vph)	85	211	0	0	167	36	0	656	0	0	0	0
Turn Type	pm+pt	NA			NA	Perm	Perm	NA				
Protected Phases	7	4			8			2				
Permitted Phases	4					8	2					
Detector Phase	7	4			8	8	2	2				
Switch Phase												
Minimum Initial (s)	3.0	8.0			8.0	8.0	15.0	15.0				
Minimum Split (s)	9.5	24.0			24.0	24.0	24.0	24.0				
Total Split (s)	21.0	78.0			57.0	57.0	42.0	42.0				
Total Split (%)	17.5%	65.0%			47.5%	47.5%	35.0%	35.0%				
Yellow Time (s)	3.5	4.0			4.0	4.0	4.0	4.0				
All-Red Time (s)	0.0	2.0			2.0	2.0	2.0	2.0				
Lost Time Adjust (s)	0.0	0.0			0.0	0.0		0.0				
Total Lost Time (s)	3.5	6.0			6.0	6.0		6.0				
Lead/Lag	Lead				Lag	Lag						
Lead-Lag Optimize?	Yes				Yes	Yes						
Recall Mode	None	None			None	None	C-Min	C-Min				
Act Effct Green (s)	32.4	29.9			17.8	17.8		78.1				
Actuated g/C Ratio	0.27	0.25			0.15	0.15		0.65				
v/c Ratio	0.30	0.43			0.62	0.13		0.21				
Control Delay	32.1	36.1			57.5	4.9		9.6				
Queue Delay	0.0	0.0			0.0	0.0		0.0				
Total Delay	32.1	36.1			57.5	4.9		9.6				
LOS	С	D			E	А		А				
Approach Delay		34.9			48.2			9.6				
Approach LOS		С			D			А				
Queue Length 50th (ft)	64	164			123	0		69				
Queue Length 95th (ft)	107	236			176	11		106				

AMEX 23-101/23-102 - Apartment Development - Des Plaines 12:20 pm 04/26/2023 Existing Weekday Morning Peak H&ynchro 11 Report BSM,sa Page 3

Lanes, Volumes, Timings 2: Lee Street & Thacker Street

06/	08	20	23
001	00	20	20

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Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Internal Link Dist (ft)		139			992			439			415	
Turn Bay Length (ft)	25											
Base Capacity (vph)	338	1188			776	700		3126				
Starvation Cap Reductn	0	0			0	0		0				
Spillback Cap Reductn	0	0			0	0		0				
Storage Cap Reductn	0	0			0	0		0				
Reduced v/c Ratio	0.25	0.18			0.22	0.05		0.21				
Intersection Summary												
Area Type:	Other											
Cycle Length: 120												
Actuated Cycle Length: 120												
Offset: 0 (0%), Referenced	to phase 2:	NBTL and	l 6:, Start	of Green								
Natural Cycle: 60												
Control Type: Actuated-Co	ordinated											
Maximum v/c Ratio: 0.62												
Intersection Signal Delay: 2					tersectior							
Intersection Capacity Utiliza	ation 37.5%			IC	U Level o	of Service	А					
Analysis Period (min) 15												
Splits and Phases: 2: Le	e Street & T	hacker St	reet									

Ø2 (R)	4 ₀₄		
42 s	78 s		
		<u>↓</u>	
	• Ø7	Ø8	
	21 s	57 s	

AMEX 23-101/23-102 - Apartment Development - Des Plaines 12:20 pm 04/26/2023 Existing Weekday Morning Peak H&ynchro 11 Report BSM,sa Page 4

Intersection

Int Delay, s/veh	0.3					
Movement	NBT	NBR	SBL	SBT	NWL	NWR
Lane Configurations				4 ₽	٦	
Traffic Vol, veh/h	0	0	12	558	16	0
Future Vol, veh/h	0	0	12	558	16	0
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	0	-
Veh in Median Storage,	# 0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	94	94	94	94	94	94
Heavy Vehicles, %	2	2	2	2	13	0
Mvmt Flow	0	0	13	594	17	0

Major/Minor	N	1ajor2	N	1inor1	
Conflicting Flow All	IV	0	0	323	-
Stage 1		-	-	0	-
Stage 2		-	-	323	-
Critical Hdwy		4.14	-	7.06	-
Critical Hdwy Stg 1		-	-	-	-
Critical Hdwy Stg 2		-	-	6.06	-
Follow-up Hdwy		2.22	-	3.63	-
Pot Cap-1 Maneuver		-	-	617	0
Stage 1		-	-	-	0
Stage 2		-	-	675	0
Platoon blocked, %			-		
Mov Cap-1 Maneuver		-	-	617	-
Mov Cap-2 Maneuver		-	-	617	-
Stage 1		-	-	-	-
Stage 2		-	-	675	-
Approach		SB		NW	
HCM Control Delay, s				11	
HCM LOS				В	
				2	
			ODT		
Minor Lane/Major Mvmt	NWLn1	SBL	SBT		
Capacity (veh/h)	617	-	-		
HCM Lane V/C Ratio	0.028	-	-		
HCM Control Delay (s)	11	-	-		
HCM Lane LOS	B	-	-		
HCM 95th %tile Q(veh)	0.1	-	-		

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Intersection						
Int Delay, s/veh	0.3					
Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations		1			≜ †≯	
Traffic Vol, veh/h	1	17	0	0	564	10
Future Vol, veh/h	1	17	0	0	564	10
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	-	0	-	-	-	-
Veh in Median Storage	, # 0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	95	95	95	95	95	95
Heavy Vehicles, %	0	6	0	0	4	20
Mvmt Flow	1	18	0	0	594	11

Major/Minor	Minor2			Ma	ijor2	
		202		IVIA		0
Conflicting Flow All	600	303			-	0
Stage 1	600	-			-	-
Stage 2	0	-			-	-
Critical Hdwy	6.8	7.02			-	-
Critical Hdwy Stg 1	5.8	-			-	-
Critical Hdwy Stg 2	-	-			-	-
Follow-up Hdwy	3.5	3.36			-	-
Pot Cap-1 Maneuver	437	681			-	-
Stage 1	516	-			-	-
Stage 2	-	-			-	-
Platoon blocked, %					-	-
Mov Cap-1 Maneuver	437	681			-	-
Mov Cap-2 Maneuver		-			-	-
Stage 1	516	-			-	-
Stage 2	-	-			-	-
5						
Approach	EB				SB	
HCM Control Delay, s	10.4				0	
HCM LOS	В					
Minor Lane/Major Mvn	ot I	EBLn1	SBT	SBR		
	nt I		301	JDK	_	_
Capacity (veh/h)		681	-	-		
HCM Lane V/C Ratio		0.026	-	-		
HCM Control Delay (s))	10.4	-	-		

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HCM Lane LOS

HCM 95th %tile Q(veh)

В

0.1

-

_

-

0.4

Intersection

Int Delay, s/veh

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR	
Lane Configurations		र्स			4			ፋት					
Traffic Vol, veh/h	6	5	0	0	5	3	6	545	20	0	0	0	
Future Vol, veh/h	6	5	0	0	5	3	6	545	20	0	0	0	
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0	
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free	Free	Free	Free	
RT Channelized	-	-	None										
Storage Length	-	-	-	-	-	-	-	-	-	-	-	-	
Veh in Median Storage,	# -	0	-	-	0	-	-	0	-	-	0	-	
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-	
Peak Hour Factor	98	98	98	98	98	98	98	98	98	98	98	98	
Heavy Vehicles, %	50	0	0	0	0	0	0	3	0	0	0	0	
Mvmt Flow	6	5	0	0	5	3	6	556	20	0	0	0	

Major/Minor	Minor2		Ν	/linor1		N	lajor1			
Conflicting Flow All	293	588	-	-	578	288	0	0	0	
Stage 1	0	0	-	-	578	-	-	-	-	
Stage 2	293	588	-	-	0	-	-	-	-	
Critical Hdwy	8.5	6.5	-	-	6.5	6.9	4.1	-	-	
Critical Hdwy Stg 1	-	-	-	-	5.5	-	-	-	-	
Critical Hdwy Stg 2	7.5	5.5	-	-	-	-	-	-	-	
Follow-up Hdwy	4	4	-	-	4	3.3	2.2	-	-	
Pot Cap-1 Maneuver	528	424	0	0	430	715	-	-	-	
Stage 1	-	-	0	0	504	-	-	-	-	
Stage 2	573	499	0	0	-	-	-	-	-	
Platoon blocked, %								-	-	
Mov Cap-1 Maneuver		424	-	-	430	715	-	-	-	
Mov Cap-2 Maneuver	521	424	-	-	430	-	-	-	-	
Stage 1	-	-	-	-	504	-	-	-	-	
Stage 2	565	499	-	-	-	-	-	-	-	
Approach	EB			WB			NB			
HCM Control Delay, s				12.2						
HCM LOS	В			В						
	-									
Minor Lane/Major Mvi	mt	NBL	NBT		BLn1W	/RI n1				
	III	NDL	וטוי	NDRL	472		_			
Capacity (veh/h)		-	-	-	472	506				

HCM Lane V/C Ratio	-	-	- 0.024	0.016	
HCM Control Delay (s)	-	-	- 12.8	12.2	
HCM Lane LOS	-	-	- B	В	
HCM 95th %tile Q(veh)	-	-	- 0.1	0	

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Int Delay, s/veh	0.3						
Movement	EBL	EBT	WBT	WBR	SBL	SBR	
Lane Configurations		ę	¢î		Y		
Traffic Vol, veh/h	3	250	203	10	3	7	
Future Vol, veh/h	3	250	203	10	3	7	
Conflicting Peds, #/hr	0	0	0	0	0	0	
Sign Control	Free	Free	Free	Free	Stop	Stop	
RT Channelized	-	None	-	None	-	None	
Storage Length	-	-	-	-	0	-	
Veh in Median Storage,	# -	0	0	-	0	-	
Grade, %	-	0	0	-	0	-	
Peak Hour Factor	93	93	93	93	93	93	
Heavy Vehicles, %	0	3	8	0	0	0	
Mvmt Flow	3	269	218	11	3	8	

Major/Minor	Major1	Ν	lajor2	ľ	Minor2	
Conflicting Flow All	229	0	-	0	499	224
Stage 1	-	-	-	-	224	-
Stage 2	-	-	-	-	275	-
Critical Hdwy	4.1	-	-	-	6.4	6.2
Critical Hdwy Stg 1	-	-	-	-	5.4	-
Critical Hdwy Stg 2	-	-	-	-	5.4	-
Follow-up Hdwy	2.2	-	-	-	3.5	3.3
Pot Cap-1 Maneuver	1351	-	-	-	535	820
Stage 1	-	-	-	-	818	-
Stage 2	-	-	-	-	776	-
Platoon blocked, %		-	-	-		
Mov Cap-1 Maneuve		-	-	-	533	820
Mov Cap-2 Maneuve	er -	-	-	-	533	-
Stage 1	-	-	-	-	816	-
Stage 2	-	-	-	-	776	-
Approach	EB		WB		SB	
HCM Control Delay,	s 0.1		0		10.2	
HCM LOS					В	
Minor Lane/Major Mv	/mt	EBL	EBT	WBT	WBR S	SBLn1
Capacity (veh/h)		1351	-	-	-	706
HCM Lane V/C Ratio)	0.002	-	-	-	0.015
HCM Control Delay ((s)	7.7	0	-	-	10.2
HCM Lane LOS		А	А	-	-	В
HCM 95th %tile Q(ve	eh)	0	-	-	-	0

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Intersection

Int Delay, s/veh	1.1						
Movement	EBL	EBT	WBT	WBR	SBL	SBR	:
Lane Configurations		ę	4Î		Y		
Traffic Vol, veh/h	30	241	191	19	12	17	
Future Vol, veh/h	30	241	191	19	12	17	
Conflicting Peds, #/hr	0	0	0	0	0	0	1
Sign Control	Free	Free	Free	Free	Stop	Stop	1
RT Channelized	-	None	-	None	-	None	;
Storage Length	-	-	-	-	0	-	
Veh in Median Storage,	# -	0	0	-	0	-	
Grade, %	-	0	0	-	0	-	
Peak Hour Factor	94	94	94	94	94	94	
Heavy Vehicles, %	3	5	5	11	17	18	
Mvmt Flow	32	256	203	20	13	18	

Major/Minor	Major1	Ν	/lajor2	1	Vinor2	
Conflicting Flow All	223	0	-	0	533	213
Stage 1	-	-	-	-	213	-
Stage 2	-	-	-	-	320	-
Critical Hdwy	4.13	-	-	-	6.57	6.38
Critical Hdwy Stg 1	-	-	-	-	5.57	-
Critical Hdwy Stg 2	-	-	-	-	5.57	-
Follow-up Hdwy	2.227	-	-	-	3.653	3.462
Pot Cap-1 Maneuver	1340	-	-	-	482	788
Stage 1	-	-	-	-	788	-
Stage 2	-	-	-	-	703	-
Platoon blocked, %		-	-	-		
Mov Cap-1 Maneuver		-	-	-	469	788
Mov Cap-2 Maneuver	-	-	-	-	469	-
Stage 1	-	-	-	-	766	-
Stage 2	-	-	-	-	703	-
Approach	EB		WB		SB	
HCM Control Delay, s	0.9		0		11.2	
HCM LOS					В	
Minor Lane/Major Mvr	nt	EBL	EBT	WBT	WBR 3	SRI n1
Capacity (veh/h)		1340			-	615
HCM Lane V/C Ratio		0.024	-	-	-	0.05
HCM Control Delay (s)	7.8	0	-	-	11.2
HCM Lane LOS)	7.0 A	A	-	-	B
HCM 95th %tile Q(ver	ນ	0.1	-			0.2
	9	0.1		_		0.2

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Attachment 13

Intersection						
Int Delay, s/veh	0.8					
Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations	4Î			Ł	Y	
Traffic Vol, veh/h	258	12	12	196	13	13
Future Vol, veh/h	258	12	12	196	13	13
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	0	-
Veh in Median Storage	e, # 0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	90	90	90	90	90	90
Heavy Vehicles, %	4	0	8	6	0	0
Mvmt Flow	287	13	13	218	14	14

Major/Minor M	lajor1	Ν	Najor2	ľ	<i>N</i> inor1	
Conflicting Flow All	0	0	300	0	538	294
Stage 1	-	-	-	-	294	-
Stage 2	-	-	-	-	244	-
Critical Hdwy	-	-	4.18	-	6.4	6.2
Critical Hdwy Stg 1	-	-	-	-	5.4	-
Critical Hdwy Stg 2	-	-	-	-	5.4	-
Follow-up Hdwy	-	-	2.272	-	3.5	3.3
Pot Cap-1 Maneuver	-	-	1228	-	508	750
Stage 1	-	-	-	-	761	-
Stage 2	-	-	-	-	801	-
Platoon blocked, %	-	-		-		
Mov Cap-1 Maneuver	-	-	1228	-	502	750
Mov Cap-2 Maneuver	-	-	-	-	502	-
Stage 1	-	-	-	-	761	-
Stage 2	-	-	-	-	791	-
Approach	EB		WB		NB	
HCM Control Delay, s	0		0.5		11.3	
HCM LOS					В	
		UDI1	EDT			
Minor Lane/Major Mvmt	[]	VBLn1	EBT	EBR	WBL	WBT
Capacity (veh/h)		601	-	-	1228	-
HCM Lane V/C Ratio		0.048	-		0.011	-
HCM Control Delay (s)		11.3	-	-	8	0
HCM Lane LOS		B	-	-	A	А
HCM 95th %tile Q(veh)		0.2	-	-	0	-

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Intersection						
Int Delay, s/veh	0.4					
Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations		र्स	4Î		Y	
Traffic Vol, veh/h	8	240	204	7	4	9
Future Vol, veh/h	8	240	204	7	4	9
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	0	-
Veh in Median Storage	,# -	0	0	-	0	-
Grade, %	-	0	0	-	0	-
Peak Hour Factor	91	91	91	91	91	91
Heavy Vehicles, %	0	5	5	0	0	0
Mvmt Flow	9	264	224	8	4	10

Major/Minor	Major1	Ν	/lajor2	ſ	Minor2	
Conflicting Flow All	232	0	-	0	510	228
Stage 1	-	-	-	-	228	-
Stage 2	-	-	-	-	282	-
Critical Hdwy	4.1	-	-	-	6.4	6.2
Critical Hdwy Stg 1	-	-	-	-	5.4	-
Critical Hdwy Stg 2	-	-	-	-	5.4	-
Follow-up Hdwy	2.2	-	-	-	3.5	3.3
Pot Cap-1 Maneuver	1348	-	-	-	527	816
Stage 1	-	-	-	-	815	-
Stage 2	-	-	-	-	770	-
Platoon blocked, %		-	-	-		
Mov Cap-1 Maneuver		-	-	-	523	816
Mov Cap-2 Maneuver	-	-	-	-	523	-
Stage 1	-	-	-	-	808	-
Stage 2	-	-	-	-	770	-
Approach	EB		WB		SB	
HCM Control Delay, s	0.2		0		10.3	
HCM LOS					В	
Minor Lane/Major Mvr	nt	EBL	EBT	WBT	WBR S	SBLn1
Capacity (veh/h)		1348	-	-	-	696
HCM Lane V/C Ratio		0.007	-	-	-	0.021
HCM Control Delay (s	;)	7.7	0	-	-	10.3
HCM Lane LOS	,	А	А	-	-	В
HCM 95th %tile Q(veh	n)	0	_	-	-	0.1

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Intersection

Int Delay, s/veh

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR	
	EDL		EDR	VVDL		WDR	NDL		NDK	JDL		JUK	
Lane Configurations		4			4			4			4		
Traffic Vol, veh/h	6	256	9	2	165	13	7	2	7	6	0	7	
Future Vol, veh/h	6	256	9	2	165	13	7	2	7	6	0	7	
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0	
Sign Control	Free	Free	Free	Free	Free	Free	Stop	Stop	Stop	Stop	Stop	Stop	
RT Channelized	-	-	None										
Storage Length	-	-	-	-	-	-	-	-	-	-	-	-	
Veh in Median Storage,	# -	0	-	-	0	-	-	0	-	-	0	-	
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-	
Peak Hour Factor	91	91	91	91	91	91	91	91	91	91	91	91	
Heavy Vehicles, %	0	4	0	0	4	0	0	0	0	0	0	0	
Mvmt Flow	7	281	10	2	181	14	8	2	8	7	0	8	

Stage 1 - - - - 300 300 - 192 192 - Stage 2 - - - - - 196 199 - 305 305 - Critical Hdwy Stg 1 - - - - 6.1 5.5 - 6.1 5.5 - 6.1 5.5 - 6.1 5.5 - 6.1 5.5 - 6.1 5.5 - 6.1 5.5 - 6.1 5.5 - 6.1 5.5 - 6.1 5.5 - 6.1 5.5 - 6.1 5.5 - 6.1 5.5 - 6.1 5.5 - 6.1 5.5 - 6.1 5.5 - 6.1 5.5 - 6.1 5.5 - 6.1 5.5 1.3 3.3 5 4 3.3 3.5 4 3.3 3.5 4 3.3 3.5 4 3.3 3.5 4 3.3 3.5 4 3.4 3.3 5 4 3.4	Major/Minor M	Major1		N	Major2		1	Minor1		Ν	/linor2			
Stage 1 - - - - 300 300 - 192 192 - Stage 2 - - - - - 196 199 - 305 305 - Critical Hdwy Stg 1 - - - - 6.1 5.5 - 6.1 5.5 - 6.1 5.5 - 6.1 5.5 - 6.1 5.5 - 6.1 5.5 - 6.1 5.5 - 6.1 5.5 - 6.1 5.5 - 6.1 5.5 - 6.1 5.5 - 6.1 5.5 - 6.1 5.5 - 6.1 5.5 - 6.1 5.5 - 6.1 5.5 - 6.1 5.5 - 6.1 5.5 - 6.1 5.5 1.3 3.3 5 4 3.3 3.5 4 3.3 3.5 4 3.3 3.5 4 3.3 3.5 4 3.3 3.5 4 3.4 3.3 5 4 3.4	Conflicting Flow All		0			0	0	496	499	286	497	497	188	
Critical Hdwy 4.1 - - 4.1 - - 7.1 6.5 6.2 7.1 6.5 6.2 Critical Hdwy Stg 1 - - - - 6.1 5.5 3.3 Pression Pression 1.1 1.1 7.1 6.6 6.1 7.7 859 Stage 1 - - - 7.1 6.5 8.09 7.44 - Stage 1 - - 1.2 8.01 </td <td></td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> <td>300</td> <td>300</td> <td>-</td> <td>192</td> <td>192</td> <td>-</td> <td></td>		-	-	-	-	-	-	300	300	-	192	192	-	
Critical Hdwy Stg 1 - - - - 6.1 5.5 - <td>Stage 2</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> <td>196</td> <td>199</td> <td>-</td> <td>305</td> <td>305</td> <td>-</td> <td></td>	Stage 2	-	-	-	-	-	-	196	199	-	305	305	-	
Critical Hdwy Stg 2 - - - - 6.1 5.5 - 6.1 5.5 - Follow-up Hdwy 2.2 - 2.2 - 3.5 4 3.3 3.5 4 3.3 Pot Cap-1 Maneuver 1390 - 1282 - - 487 476 758 487 477 859 Stage 1 - - - - - 713 669 814 745 - Stage 2 - - - - 810 740 - 709 666 - Platoon blocked, % - - - - 810 742 758 477 473 859 Mov Cap-1 Maneuver 1390 - 1282 - 480 472 758 477 473 859 Mov Cap-2 Maneuver - - - 709 665 809 744 - Stage 1 - - - - 801 739 695 662 - <td>Critical Hdwy</td> <td>4.1</td> <td>-</td> <td>-</td> <td>4.1</td> <td>-</td> <td>-</td> <td>7.1</td> <td>6.5</td> <td>6.2</td> <td>7.1</td> <td>6.5</td> <td>6.2</td> <td></td>	Critical Hdwy	4.1	-	-	4.1	-	-	7.1	6.5	6.2	7.1	6.5	6.2	
Follow-up Hdwy 2.2 - 2.2 - - 3.5 4 3.3 3.5 4 3.3 Pot Cap-1 Maneuver 1390 - 1282 - - 487 476 758 487 477 859 Stage 1 - - - - 713 669 - 814 745 - Stage 2 - - - - - 810 740 - 709 666 - Platoon blocked, % - - - - 480 472 758 477 473 859 Mov Cap-1 Maneuver 1390 - 1282 - - 480 472 758 477 473 859 Mov Cap-2 Maneuver - - - - 480 472 - 477 473 859 Mov Cap-2 Maneuver - - - - 709 665 809 744 - Stage 2 - - - 801 739	Critical Hdwy Stg 1	-	-	-	-	-	-	6.1	5.5	-	6.1	5.5	-	
Pot Cap-1 Maneuver 1390 - - 1282 - - 487 476 758 487 477 859 Stage 1 - - - - 713 669 - 814 745 - Stage 2 - - - - 810 740 - 709 666 - Platoon blocked, % - - 1282 - - 480 472 758 477 473 859 Mov Cap-1 Maneuver 1390 - 1282 - - 480 472 758 477 473 859 Mov Cap-2 Maneuver - - - - 480 472 - 477 473 859 Mov Cap-2 Maneuver - - - - 709 665 809 744 - Stage 1 - - - - 801 739 695 662 - Approach EB WB NB SB B B B	Critical Hdwy Stg 2		-	-	-	-	-	6.1	5.5	-	6.1	5.5	-	
Stage 1 - - - - 713 669 - 814 745 - Stage 2 - - - - 810 740 - 709 666 - Platoon blocked, % - - 1282 - - 480 472 758 477 473 859 Mov Cap-1 Maneuver 1390 - 1282 - - 480 472 758 477 473 859 Mov Cap-2 Maneuver - - 1282 - - 480 472 - 477 473 - Stage 1 - - - - 709 665 809 744 - Stage 2 - - - - 801 739 695 662 - HCM Control Delay, s 0.2 0.1 11.5 10.9 - - 8 B B - - 627 - - 627 - 627 - 627 - 627	Follow-up Hdwy	2.2	-	-	2.2	-	-	3.5	4	3.3	3.5	4	3.3	
Stage 2 - - - - 810 740 - 709 666 - Platoon blocked, % - - - - - - - - - - - Platoon blocked, % - 480 472 - 477 473 - - - Stage 1 - - - - 709 665 - 809 744 - - - - 801 739 - 695 662 - - - - 801 739 - 695 662 - - - - - 80 - 10.9 - - 610 - 11.5 10.9 - - 627	Pot Cap-1 Maneuver	1390	-	-	1282	-	-	487	476	758	487	477	859	
Platoon blocked, % - - - - Mov Cap-1 Maneuver 1390 - 1282 - - 480 472 758 477 473 859 Mov Cap-2 Maneuver - - - - 480 472 - 477 473 - Stage 1 - - - - 709 665 - 809 744 - Stage 2 - - - - - 801 739 - 695 662 - Approach EB WB NB SB - - - 801 739 - 695 662 - Moro Lane/Major Mvmt NBLn1 EB WB NB SB B B B B - - 627 - - 627 - 627 - 627 - 6023 - - 6023 - 6023 - 6023 - 6023 - 6023 - 6023 - 6023	Stage 1	-	-	-	-	-	-	713	669	-	814	745	-	
Mov Cap-1 Maneuver 1390 - 1282 - - 480 472 758 477 473 859 Mov Cap-2 Maneuver - - - - 480 472 - 477 473 859 Mov Cap-2 Maneuver - - - - 480 472 - 477 473 - Stage 1 - - - - - 709 665 - 809 744 - Stage 2 - - - - - 801 739 - 695 662 - Approach EB WB NB SB - - - - 801 739 - 695 662 - HCM Control Delay, s 0.2 0.1 11.5 10.9 - - 11.5 10.9 - Minor Lane/Major Mvmt NBLn1 EBL EBT EBR WBL WBT WBR SBLn1 - - 627 - 627 - 627 <td< td=""><td>Stage 2</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>810</td><td>740</td><td>-</td><td>709</td><td>666</td><td>-</td><td></td></td<>	Stage 2	-	-	-	-	-	-	810	740	-	709	666	-	
Mov Cap-2 Maneuver - - - - 480 472 - 477 473 - Stage 1 - - - - 709 665 - 809 744 - Stage 2 - - - - 801 739 - 695 662 - Approach EB WB WB NB SB - - - - 801 739 - 695 662 - Approach EB WB WB NB SB - - - - 8 -	Platoon blocked, %		-	-		-	-							
Stage 1 - - - 709 665 - 809 744 - Stage 2 - - - - 801 739 - 695 662 - Approach EB WB NB SB - - - 801 739 - 695 662 - Approach EB WB WB NB SB - - - 801 739 - 695 662 - HCM Control Delay, s 0.2 0.1 11.5 10.9 - - 10.9 - - 627 - - 627 Minor Lane/Major Mvmt NBL n1 EBL EBT EBR WBL WBT WBR SBLn1 - - 627 - 6023 - - 0.002 - - 0.023 - - 0.023 - - 0.023 - - 0.023 - - 0.023 - - 0.023 - - 0.023 - - </td <td>Mov Cap-1 Maneuver</td> <td>1390</td> <td>-</td> <td>-</td> <td>1282</td> <td>-</td> <td>-</td> <td>480</td> <td>472</td> <td>758</td> <td>477</td> <td>473</td> <td>859</td> <td></td>	Mov Cap-1 Maneuver	1390	-	-	1282	-	-	480	472	758	477	473	859	
Stage 2 - - - 801 739 - 695 662 - Approach EB WB NB SB - - 801 739 - 695 662 - Approach EB WB NB SB - - - - 801 739 - 695 662 - Minor Lane/Major Mvmt NBLn1 EBL EBT EBR WBL WBT WBR SBLn1 Capacity (veh/h) 570 1390 - - 1282 - - 627 HCM Lane V/C Ratio 0.031 0.005 - - 0.002 - - 0.023 HCM Control Delay (s) 11.5 7.6 0 - 7.8 0 - 10.9 HCM Lane LOS B A A A A A B A - A A - B	Mov Cap-2 Maneuver	-	-	-	-	-	-	480	472	-	477	473	-	
Approach EB WB NB SB HCM Control Delay, s 0.2 0.1 11.5 10.9 HCM LOS B B B Minor Lane/Major Mvmt NBLn1 EBL EBT EBR WBL WBT WBR SBLn1 Capacity (veh/h) 570 1390 - - 1282 - - 627 HCM Lane V/C Ratio 0.031 0.005 - - 0.002 - 0.023 HCM Control Delay (s) 11.5 7.6 0 - 7.8 0 - 10.9 HCM Lane LOS B A - A - B -	Stage 1	-	-	-	-	-	-	709	665	-	809	744	-	
HCM Control Delay, s 0.2 0.1 11.5 10.9 HCM LOS B B B Minor Lane/Major Mvmt NBLn1 EBL EBT EBR WBL WBT WBR SBLn1 Capacity (veh/h) 570 1390 - - 1282 - - 627 HCM Lane V/C Ratio 0.031 0.005 - - 0.002 - 0.023 HCM Control Delay (s) 11.5 7.6 0 - 7.8 0 - 10.9 HCM Lane LOS B A - A - B -	Stage 2	-	-	-	-	-	-	801	739	-	695	662	-	
HCM Control Delay, s 0.2 0.1 11.5 10.9 HCM LOS B B B Minor Lane/Major Mvmt NBLn1 EBL EBT EBR WBL WBT WBR SBLn1 Capacity (veh/h) 570 1390 - - 1282 - - 627 HCM Lane V/C Ratio 0.031 0.005 - - 0.002 - 0.023 HCM Control Delay (s) 11.5 7.6 0 - 7.8 0 - 10.9 HCM Lane LOS B A - A - B -														
HCM Control Delay, s 0.2 0.1 11.5 10.9 HCM LOS B B B Minor Lane/Major Mvmt NBLn1 EBL EBT EBR WBL WBT WBR SBLn1 Capacity (veh/h) 570 1390 - - 1282 - - 627 HCM Lane V/C Ratio 0.031 0.005 - - 0.002 - - 0.023 HCM Control Delay (s) 11.5 7.6 0 - 7.8 0 - 10.9 HCM Lane LOS B A - A - B - -	Approach	EB			WB			NB			SB			
HCM LOS B B Minor Lane/Major Mvmt NBLn1 EBL EBR WBL WBT WBR SBLn1 Capacity (veh/h) 570 1390 - - 1282 - - 627 HCM Lane V/C Ratio 0.031 0.005 - - 0.002 - - 0.023 HCM Control Delay (s) 11.5 7.6 0 - 7.8 0 - 10.9 HCM Lane LOS B A A - A - B		0.2			0.1			11.5			10.9			
Capacity (veh/h) 570 1390 - - 1282 - - 627 HCM Lane V/C Ratio 0.031 0.005 - - 0.002 - - 0.023 HCM Control Delay (s) 11.5 7.6 0 - 7.8 0 - 10.9 HCM Lane LOS B A A A - B A - A - B	HCM LOS										В			
Capacity (veh/h) 570 1390 - - 1282 - - 627 HCM Lane V/C Ratio 0.031 0.005 - - 0.002 - - 0.023 HCM Control Delay (s) 11.5 7.6 0 - 7.8 0 - 10.9 HCM Lane LOS B A A A - B A - A - B														
HCM Lane V/C Ratio 0.031 0.005 - - 0.002 - - 0.023 HCM Control Delay (s) 11.5 7.6 0 - 7.8 0 - 10.9 HCM Lane LOS B A A A - B	Minor Lane/Major Mvm	it I	VBLn1	EBL	EBT	EBR	WBL	WBT	WBR	SBLn1				
HCM Lane V/C Ratio 0.031 0.005 - - 0.023 HCM Control Delay (s) 11.5 7.6 0 - 7.8 0 - 10.9 HCM Lane LOS B A A A - B	Capacity (veh/h)		570	1390	-	-	1282	-	-	627				
HCM Lane LOS BAA-AA-B	HCM Lane V/C Ratio		0.031	0.005	-	-	0.002	-	-	0.023				
HCM Lane LOS B A A - A A - B	HCM Control Delay (s)		11.5	7.6	0	-	7.8	0	-	10.9				
	HCM Lane LOS		В	А	А	-	А	А	-	В				
	HCM 95th %tile Q(veh))	0.1	0	-	-	0	-	-	0.1				

Intersection							
Int Delay, s/veh	2.1						
Movement	EBL	EBT	WBT	WBR	SBL	SBR	
Lane Configurations		د ا	4		¥		
Traffic Vol, veh/h	3	6	10	0	0	3	
Future Vol, veh/h	3	6	10	0	0	3	
Conflicting Peds, #/hr	0	0	0	0	0	0	
Sign Control	Free	Free	Free	Free	Stop	Stop	
RT Channelized	-	None	-	None	-	None	
Storage Length	-	-	-	-	0	-	
Veh in Median Storage,	,# -	0	0	-	0	-	
Grade, %	-	0	0	-	0	-	
Peak Hour Factor	61	61	61	61	61	61	
Heavy Vehicles, %	0	0	10	0	2	0	
Mvmt Flow	5	10	16	0	0	5	

Major/Minor	Major1	Ν	/lajor2	ſ	Minor2	
Conflicting Flow All	16	0	-	0	36	16
Stage 1	-	-	-	-	16	-
Stage 2	-	-	-	-	20	-
Critical Hdwy	4.1	-	-	-	6.42	6.2
Critical Hdwy Stg 1	-	-	-	-	5.42	-
Critical Hdwy Stg 2	-	-	-	-	5.42	-
Follow-up Hdwy	2.2	-	-	-	3.518	3.3
Pot Cap-1 Maneuver	1615	-	-	-	977	1069
Stage 1	-	-	-	-	1007	-
Stage 2	-	-	-	-	1003	-
Platoon blocked, %		-	-	-		
Mov Cap-1 Maneuver		-	-	-	974	1069
Mov Cap-2 Maneuver	-	-	-	-	974	-
Stage 1	-	-	-	-	1004	-
Stage 2	-	-	-	-	1003	-
Approach	EB		WB		SB	
HCM Control Delay, s	2.4		0		8.4	
HCM LOS					А	
Minor Lane/Major Mvn	nt	EBL	EBT	WBT	WBR S	SBLn1
Capacity (veh/h)		1615	-	-	-	1069
HCM Lane V/C Ratio		0.003	-	-	-	0.005
HCM Control Delay (s))	7.2	0	-	-	8.4
HCM Lane LOS		А	А	-	-	А
HCM 95th %tile Q(veh	ı)	0	-	-	-	0

Capacity Analysis Summary Sheets Existing Weekday Evening Peak Hour

Lanes, Volumes, Timings 1: Graceland Avenue & Thacker Street

Lane Group EBL EBT EBR WBL WBT WBR NBL NBT NBR SBL SEL Lane Configurations	1 135 1 135 0 1900 0 0 5 0.95
Lane Configurations Image: Configuration of the second secon	1 135 1 135 0 1900 0 0 5 0.95
Traffic Volume (vph)0205455820300004344Future Volume (vph)0205455820300004344Ideal Flow (vphpl)190019001900190019001900190019001900190019001900Storage Length (ft)002500000Storage Lanes0010001	1 135 1 135 0 1900 0 0 5 0.95
Traffic Volume (vph)020545582030004344Future Volume (vph)020545582030004344Ideal Flow (vphpl)190019001900190019001900190019001900190019001900Storage Length (ft)0002500000Storage Lanes0010001	1 135 1 135 0 1900 0 0 5 0.95
Future Volume (vph)020545582030004344Ideal Flow (vphpl)1900190019001900190019001900190019001900190019001900Storage Length (ft)00025000000Storage Lanes0010001001	0 1900 0 0 5 0.95
Ideal Flow (vphpl)19001	0 0 5 0.95
Storage Length (ft) 0 0 25 0 0 0 0 Storage Lanes 0 0 1 0 0 1	0 5 0.95
Storage Lanes 0 0 1 0 0 1	5 0.95
Taper Length (ft) 25 25 25 25	
Lane Util. Factor 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.0	
Frt 0.976 0.90	
Flt Protected 0.950 0.950	
Satd. Flow (prot) 0 1833 0 1770 1845 0 0 0 0 1805 342	6 0
Flt Permitted 0.295 0.950	
Satd. Flow (perm) 0 1833 0 550 1845 0 0 0 1805 342	6 0
Right Turn on Red Yes Yes Yes	Yes
•	4
, , ,	0
Link Distance (ft) 192 276 397 4	
Travel Time (s) 4.4 6.3 9.0 10	
Peak Hour Factor 0.90 0.90 0.90 0.90 0.90 0.90 0.90 0.9	
	% 2%
Shared Lane Traffic (%)	10 Z 70
Lane Group Flow (vph) 0 278 0 64 226 0 0 0 48 64	6 0
	A U
Protected Phases 4 8	6
Permitted Phases 8 6	U
Detector Phase 4 8 8 6	6
Switch Phase 4 0 0 0	U
	0
	5
	5
· · · ·	0
	0
Lead/Lag	
Lead-Lag Optimize?	
Recall Mode None None C-Min C-M	
Act Effct Green (s) 23.0 23.5 85.0 85	
Actuated g/C Ratio 0.19 0.20 0.20 0.71 0.7	
v/c Ratio 0.78 0.60 0.63 0.04 0.1	
,	7
	0
y	7
	A
	7
Approach LOS E E	A
5 ()	4
Queue Length 95th (ft) 276 99 258 27 13	/

Lanes, Volumes, Timings 1: Graceland Avenue & Thacker Street

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Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Internal Link Dist (ft)		112			196			317			373	
Turn Bay Length (ft)				25								
Base Capacity (vph)		525		158	530					1278	2443	
Starvation Cap Reductn		0		0	0					0	0	
Spillback Cap Reductn		0		0	0					0	0	
Storage Cap Reductn		0		0	0					0	0	
Reduced v/c Ratio		0.53		0.41	0.43					0.04	0.28	
Intersection Summary												
Area Type:	Other											
Cycle Length: 120												
Actuated Cycle Length: 120												
Offset: 11.6 (10%), Reference	ced to phas	e 2: and	6:SBTL, S	Start of G	reen							
Natural Cycle: 45												
Control Type: Actuated-Coo	rdinated											
Maximum v/c Ratio: 0.78												
Intersection Signal Delay: 28					tersectior							
Intersection Capacity Utilization	tion 50.2%			IC	U Level o	of Service	A					
Analysis Period (min) 15												

Splits and Phases: 1: Graceland Avenue & Thacker Street

	→ Ø4
	40 s
Ø6 (R)	↓ Ø8
80 s	40 s

06/08/2023

PMEX 23-101/23-102 - Apartment Development - Des Plaines 2:04 pm 06/05/2023 Existing Weekday Evening Peak Ho&ynchro 11 Report BSM,sa Page 2

Lanes, Volumes, Timings 2: Lee Street & Thacker Street

06/08/2023

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Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations	ሻ	†			†	1		-€ ↑ ₽				
Traffic Volume (vph)	77	159	0	0	182	22	59	524	90	0	0	0
Future Volume (vph)	77	159	0	0	182	22	59	524	90	0	0	0
Ideal Flow (vphpl)	1900	2000	1900	1900	2000	1900	1900	1900	1900	1900	1900	1900
Storage Length (ft)	25		0	0		0	0		0	0		0
Storage Lanes	1		0	0		1	0		0	0		0
Taper Length (ft)	25		Ū	25		•	25		Ū	25		Ŭ
Lane Util. Factor	1.00	1.00	1.00	1.00	1.00	1.00	0.91	0.91	0.91	1.00	1.00	1.00
Frt						0.850	0.7.1	0.980	0171			
Flt Protected	0.950					01000		0.996				
Satd. Flow (prot)	1752	1980	0	0	2000	1369	0	4964	0	0	0	0
Flt Permitted	0.341	1700	Ŭ	0	2000	1007	U	0.996	Ŭ	Ū	Ŭ	Ű
Satd. Flow (perm)	629	1980	0	0	2000	1369	0	4964	0	0	0	0
Right Turn on Red	027	1700	Yes	U	2000	Yes	0	1701	Yes	Ū	Ū	Yes
Satd. Flow (RTOR)			105			59		25	105			103
Link Speed (mph)		30			30	57		30			30	
Link Distance (ft)		219			1072			519			495	
Travel Time (s)		5.0			24.4			11.8			11.3	
Peak Hour Factor	0.92	0.92	0.92	0.92	0.91	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Heavy Vehicles (%)	3%	1%	0.92	0.92	0.91	18%	2%	2%	2%	0.92	0.92	0.92
Shared Lane Traffic (%)	J /0	170	070	070	070	1070	Ζ/0	Ζ/0	Ζ /0	070	070	070
Lane Group Flow (vph)	84	173	0	0	200	24	0	732	0	0	0	0
Turn Type		NA	0	0	NA	Perm	Perm	NA	0	0	0	0
Protected Phases	pm+pt 7	4			8	Feilii	Feilii	2				
Permitted Phases	4	4			0	8	2	Z				
Detector Phase	4	4			8	o 8	2	2				
Switch Phase	/	4			0	0	Z	Z				
	3.0	8.0			8.0	8.0	15.0	15.0				
Minimum Initial (s)	9.5	22.5			22.5	22.5	22.5	22.5				
Minimum Split (s)	9.5	78.0			65.0	65.0	42.0	42.0				
Total Split (s)	10.8%	65.0%			54.2%	54.2%	42.0	42.0 35.0%				
Total Split (%)	3.5	4.0			54.2 <i>%</i>	54.2 <i>%</i>	4.0	4.0				
Yellow Time (s) All-Red Time (s)	0.0	4.0			4.0	4.0	4.0	4.0				
()		0.0					2.0	0.0				
Lost Time Adjust (s) Total Lost Time (s)	0.0 3.5	6.0			0.0 6.0	0.0 6.0		6.0				
Lead/Lag	Lead	0.0				Lag		0.0				
Lead-Lag Optimize?	Yes				Lag Yes	Yes						
Recall Mode		None				None	C-Min	C-Min				
	None				None 18.6	18.6	C-IVIIII					
Act Effct Green (s)	32.3 0.27	29.8 0.25			0.16	0.16		78.2 0.65				
Actuated g/C Ratio												
v/c Ratio	0.32	0.35 25 5			0.65	0.09 0.7		0.23 9.5				
Control Delay	33.8	35.5			56.7							
Queue Delay	0.0	0.0 25 5			0.0	0.0 0.7		0.0 9.5				
Total Delay	33.8	35.5			56.7							
LOS Approach Dolay	С	D			E	А		A				
Approach Delay		34.9			50.7			9.5				
Approach LOS	/ Г	C 124			D	0		A 81				
Queue Length 50th (ft)	65 115	136			147 212	0						
Queue Length 95th (ft)	115	206			213	1		116				

Lanes, Volumes, Timings 2: Lee Street & Thacker Street

06/	08	20	23
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Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Internal Link Dist (ft)		139			992			439			415	
Turn Bay Length (ft)	25											
Base Capacity (vph)	265	1188			983	703		3245				
Starvation Cap Reductn	0	0			0	0		0				
Spillback Cap Reductn	0	0			0	0		0				
Storage Cap Reductn	0	0			0	0		0				
Reduced v/c Ratio	0.32	0.15			0.20	0.03		0.23				
Intersection Summary												
Area Type:	Other											
Cycle Length: 120												
Actuated Cycle Length: 12												
Offset: 51.6 (43%), Referen	nced to phas	se 2:NBTL	and 6:, 9	Start of G	ireen							
Natural Cycle: 55												
Control Type: Actuated-Co	ordinated											
Maximum v/c Ratio: 0.65												
Intersection Signal Delay: 2					tersectior							
Intersection Capacity Utiliz	ation 40.0%			IC	CU Level o	of Service	А					
Analysis Period (min) 15												
Solits and Phases 2.1 e	o Stroot & T	hackor St	root									

Splits and Phases: 2: Lee Street & Thacker Street

Ø2 (R)	<u>≁</u> ₀₄
42 s	78 s
	Ø7 Ø8
	13 s 65 s

PMEX 23-101/23-102 - Apartment Development - Des Plaines 2:04 pm 06/05/2023 Existing Weekday Evening Peak Ho&ynchro 11 Report BSM,sa Page 4

Intersection

Just Dalau aluala	ΔГ					
Int Delay, s/veh	0.5					
Movement	NDT	NDD	CDI	CDT	NI\A/I	
Movement	NBT	NBR	SBL	SBT	NWL	NWR
Lane Configurations				- 4 †	ሻ	
Traffic Vol, veh/h	0	0	13	592	29	0
Future Vol, veh/h	0	0	13	592	29	0
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	0	-
Veh in Median Storage,	,# 0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	94	94	94	94	94	94
Heavy Vehicles, %	0	0	15	1	0	0
Mvmt Flow	0	0	14	630	31	0

Major/Minor	N	1ajor2	Ν	linor1	
Conflicting Flow All		0	0	343	-
Stage 1		-	-	0	-
Stage 2		-	-	343	-
Critical Hdwy		4.4	-	6.8	-
Critical Hdwy Stg 1		-	-	-	-
Critical Hdwy Stg 2		-	-	5.8	-
Follow-up Hdwy		2.35	-	3.5	-
Pot Cap-1 Maneuver		-	-	633	0
Stage 1		-	-	-	0
Stage 2		-	-	696	0
Platoon blocked, %			-		
Mov Cap-1 Maneuver		-	-	633	-
Mov Cap-2 Maneuver		-	-	633	-
Stage 1		-	-	-	-
Stage 2		-	-	696	-
Approach		SB		NW	
HCM Control Delay, s				11	
HCM LOS				В	
Minor Long / Aciar Mumt		CDI	СПТ		
Minor Lane/Major Mvmt	NWLn1	SBL	SBT		
Capacity (veh/h)	633	-	-		
HCM Lane V/C Ratio	0.049	-	-		
HCM Control Delay (s)	11	-	-		
HCM Lane LOS	В	-	-		
HCM 95th %tile Q(veh)	0.2	-	-		

Intersection						
Int Delay, s/veh	0.3					
Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations		1			≜ †≯	
Traffic Vol, veh/h	0	17	0	0	607	14
Future Vol, veh/h	0	17	0	0	607	14
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	-	0	-	-	-	-
Veh in Median Storage	e, # 0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	85	85	85	85	85	85
Heavy Vehicles, %	0	6	0	0	2	0
Mvmt Flow	0	20	0	0	714	16

Major/Minor	Minor2			Ма	ijor2						
Conflicting Flow All	-	365			-	0					
Stage 1	-	-			-	-					
Stage 2	-	-			-	-					
Critical Hdwy	-	7.02			-	-					
Critical Hdwy Stg 1	-	-			-	-					
Critical Hdwy Stg 2	-	-			-	-					
Follow-up Hdwy	-	3.36			-	-					
Pot Cap-1 Maneuver	0	620			-	-					
Stage 1	0	-			-	-					
Stage 2	0	-			-	-					
Platoon blocked, %					-	-					
Mov Cap-1 Maneuver		620			-	-					
Mov Cap-2 Maneuver	-	-			-	-					
Stage 1	-	-			-	-					
Stage 2	-	-			-	-					
Approach	EB				SB						
HCM Control Delay, s					0						
HCM LOS	В				Ū						
		- DI 1	CDT	CDD				_			
Minor Lane/Major Mvr	nt E	EBLn1	SBT	SBR			_				
Capacity (veh/h)		620	-	-							
HCM Lane V/C Ratio		0.032	-	-							

	0.032	-	-
HCM Control Delay (s)	11	-	-
HCM Lane LOS	В	-	-
HCM 95th %tile Q(veh)	0.1	-	-

0.5

Intersection

Int Delay, s/veh

Mayamant	EDI	ГРТ					NDI	NDT		CDI	СПТ	CDD	
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR	
Lane Configurations		र्भ			4Î			ፋጉ					
Traffic Vol, veh/h	4	7	0	0	10	2	5	629	21	0	0	0	
Future Vol, veh/h	4	7	0	0	10	2	5	629	21	0	0	0	
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0	
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free	Free	Free	Free	
RT Channelized	-	-	None										
Storage Length	-	-	-	-	-	-	-	-	-	-	-	-	
Veh in Median Storage,	# -	0	-	-	0	-	-	0	-	-	0	-	
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-	
Peak Hour Factor	90	90	90	90	90	90	90	90	90	90	90	90	
Heavy Vehicles, %	0	0	0	0	0	0	0	2	0	0	0	0	
Mvmt Flow	4	8	0	0	11	2	6	699	23	0	0	0	

Major/Minor	Minor2		М	inor1		N	lajor1			
Conflicting Flow All	367	734	-	-	723	361	0	0	0	
Stage 1	0	0	-	-	723	-	-	-	-	
Stage 2	367	734	-	-	0	-	-	-	-	
Critical Hdwy	7.5	6.5	-	-	6.5	6.9	4.1	-	-	
Critical Hdwy Stg 1	-	-	-	-	5.5	-	-	-	-	
Critical Hdwy Stg 2	6.5	5.5	-	-	-	-	-	-	-	
Follow-up Hdwy	3.5	4	-	-	4	3.3	2.2	-	-	
Pot Cap-1 Maneuver	569	350	0	0	355	641	-	-	-	
Stage 1	-	-	0	0	434	-	-	-	-	
Stage 2	630	429	0	0	-	-	-	-	-	
Platoon blocked, %								-	-	
Mov Cap-1 Maneuver		350	-	-	355	641	-	-	-	
Mov Cap-2 Maneuver	554	350	-	-	355	-	-	-	-	
Stage 1	-	-	-	-	434	-	-	-	-	
Stage 2	612	429	-	-	-	-	-	-	-	
Approach	EB			WB			NB			
HCM Control Delay, s	5 14.2			14.7						
HCM LOS	В			В						

Minor Lane/Major Mvmt	NBL	NBT	NBR E	BLn1V	VBLn1	
Capacity (veh/h)	-	-	-	404	384	
HCM Lane V/C Ratio	-	-	-	0.03	0.035	
HCM Control Delay (s)	-	-	-	14.2	14.7	
HCM Lane LOS	-	-	-	В	В	
HCM 95th %tile Q(veh)	-	-	-	0.1	0.1	

Intersection

Int Delay, s/veh	0.5					
Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations		ę	¢Î		Y	
Traffic Vol, veh/h	14	242	324	9	8	6
Future Vol, veh/h	14	242	324	9	8	6
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	0	-
Veh in Median Storage,	# -	0	0	-	0	-
Grade, %	-	0	0	-	0	-
Peak Hour Factor	93	93	93	93	93	93
Heavy Vehicles, %	7	1	2	0	0	17
Mvmt Flow	15	260	348	10	9	6

Major/Minor	Major1	Ν	lajor2	ſ	Minor2	
Conflicting Flow All	358	0	-	0	643	353
Stage 1	-	-	-	-	353	-
Stage 2	-	-	-	-	290	-
Critical Hdwy	4.17	-	-	-	6.4	6.37
Critical Hdwy Stg 1	-	-	-	-	5.4	-
Critical Hdwy Stg 2	-	-	-	-	5.4	-
Follow-up Hdwy	2.263	-	-	-		3.453
Pot Cap-1 Maneuver	1173	-	-	-	441	658
Stage 1	-	-	-	-	716	-
Stage 2	-	-	-	-	764	-
Platoon blocked, %		-	-	-		
Mov Cap-1 Maneuver		-	-	-	434	658
Mov Cap-2 Maneuver	-	-	-	-	434	-
Stage 1	-	-	-	-	705	-
Stage 2	-	-	-	-	764	-
Approach	EB		WB		SB	
HCM Control Delay, s	0.4		0		12.3	
HCM LOS					В	
Minor Lane/Major Mvr	nt	EBL	EBT	WBT	WBR S	SBLn1
Capacity (veh/h)		1173	-	-	-	508
HCM Lane V/C Ratio		0.013	-	-	-	0.03
HCM Control Delay (s	;)	8.1	0	-	-	12.3
HCM Lane LOS		А	А	-	-	В
HCM 95th %tile Q(veh	r)	0	-	-	-	0.1

Intersection

Int Delay, s/veh	1.1					
Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations		Ł	4		¥	
Traffic Vol, veh/h	29	234	318	13	15	21
Future Vol, veh/h	29	234	318	13	15	21
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	0	-
Veh in Median Storage,	# -	0	0	-	0	-
Grade, %	-	0	0	-	0	-
Peak Hour Factor	91	91	91	91	91	91
Heavy Vehicles, %	7	1	3	0	0	5
Mvmt Flow	32	257	349	14	16	23

Major/Minor	Major1	Ν	/lajor2	N	Ainor2		
Conflicting Flow All	363	0	-	0	677	356)
Stage 1	-	-	-	-	356	-	-
Stage 2	-	-	-	-	321	-	
Critical Hdwy	4.17	-	-	-	6.4	6.25	,
Critical Hdwy Stg 1	-	-	-	-	5.4	-	
Critical Hdwy Stg 2	-	-	-	-	5.4	-	
Follow-up Hdwy	2.263	-	-	-		3.345	
Pot Cap-1 Maneuver	1168	-	-	-	421	681	
Stage 1	-	-	-	-	713	-	
Stage 2	-	-	-	-	740	-	
Platoon blocked, %		-	-	-			
Mov Cap-1 Maneuver		-	-	-	408	681	
Mov Cap-2 Maneuver	r -	-	-	-	408	-	•
Stage 1	-	-	-	-	690	-	•
Stage 2	-	-	-	-	740	-	•
Approach	EB		WB		SB		
HCM Control Delay, s	s 0.9		0		12.3		
HCM LOS					В		
Minor Lane/Major Mv	mt	EBL	EBT	WBT	WBR	SBLn1	
Capacity (veh/h)		1168	-	-	-	533	_
HCM Lane V/C Ratio		0.027	-	-	-	0.074	
HCM Control Delay (s		8.2	0	-	-	12.3	
HCM Lane LOS		A	A	-	-	В	
HCM 95th %tile Q(ve	h)	0.1	-	-	-	0.2)

PMEX 23-101/23-102 - Apartment Development - Des Plaines 2:04 pm 06/05/2023 Existing Weekday Evening Peak Hogsynchro 11 Report BSM,sa Page 5

Attachment 13

Int Delay, s/veh	0.5					
Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations	4			र्स	¥	
Traffic Vol, veh/h	243	9	9	330	4	20
Future Vol, veh/h	243	9	9	330	4	20
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	0	-
Veh in Median Storage	,# 0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	90	90	90	90	90	90
Heavy Vehicles, %	2	0	0	3	0	0
Mvmt Flow	270	10	10	367	4	22

Major/Minor M	Major1	Ν	/lajor2	ſ	Ainor1	
Conflicting Flow All	0	0	280	0	662	275
Stage 1	-	-	-	-	275	-
Stage 2	-	-	-	-	387	-
Critical Hdwy	-	-	4.1	-	6.4	6.2
Critical Hdwy Stg 1	-	-	-	-	5.4	-
Critical Hdwy Stg 2	-	-	-	-	5.4	-
Follow-up Hdwy	-	-	2.2	-	3.5	3.3
Pot Cap-1 Maneuver	-	-	1294	-	430	769
Stage 1	-	-	-	-	776	-
Stage 2	-	-	-	-	691	-
Platoon blocked, %	-	-		-		
Mov Cap-1 Maneuver	-	-	1294	-	426	769
Mov Cap-2 Maneuver	-	-	-	-	426	-
Stage 1	-	-	-	-	776	-
Stage 2	-	-	-	-	684	-
Approach	EB		WB		NB	
HCM Control Delay, s	0		0.2		10.5	
HCM LOS	Ū		0.2		B	
					U	
			FDT	500		WDT
Minor Lane/Major Mvm	it N	BLn1	EBT	EBR	WBL	WBT
Capacity (veh/h)		678	-		1294	-
HCM Lane V/C Ratio		0.039	-	-	0.008	-
HCM Control Delay (s)		10.5	-	-	7.8	0
HCM Lane LOS		В	-	-	A	А
HCM 95th %tile Q(veh)		0.1	-	-	0	-

PMEX 23-101/23-102 - Apartment Development - Des Plaines 2:04 pm 06/05/2023 Existing Weekday Evening Peak Hogsynchro 11 Report BSM,sa Page 6

Attachment 13

Intersection						
Int Delay, s/veh	0.2					
Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations		र्स	4		Y	
Traffic Vol, veh/h	4	246	331	7	4	2
Future Vol, veh/h	4	246	331	7	4	2
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	0	-
Veh in Median Storage	e, # -	0	0	-	0	-
Grade, %	-	0	0	-	0	-
Peak Hour Factor	87	87	87	87	87	87
Heavy Vehicles, %	0	1	2	0	0	0
Mvmt Flow	5	283	380	8	5	2

Major/Minor	Major1	Ν	/lajor2	1	Minor2	
Conflicting Flow All	388	0	-	0	677	384
Stage 1	-	-	-	-	384	-
Stage 2	-	-	-	-	293	-
Critical Hdwy	4.1	-	-	-	6.4	6.2
Critical Hdwy Stg 1	-	-	-	-	5.4	-
Critical Hdwy Stg 2	-	-	-	-	5.4	-
Follow-up Hdwy	2.2	-	-	-	3.5	3.3
Pot Cap-1 Maneuver	1182	-	-	-	421	668
Stage 1	-	-	-	-	693	-
Stage 2	-	-	-	-	762	-
Platoon blocked, %		-	-	-		
Mov Cap-1 Maneuver		-	-	-	419	668
Mov Cap-2 Maneuver	r -	-	-	-	419	-
Stage 1	-	-	-	-	690	-
Stage 2	-	-	-	-	762	-
Approach	EB		WB		SB	
HCM Control Delay, s	s 0.1		0		12.6	
HCM LOS					В	
Minor Lane/Major Mv	mt	EBL	EBT	WBT	WBR S	SBLn1
Capacity (veh/h)		1182	-	-	-	478
HCM Lane V/C Ratio		0.004	-	-	-	0.014
HCM Control Delay (s	s)	8.1	0	-	-	12.6
HCM Lane LOS		А	А	-	-	В
HCM 95th %tile Q(ve	h)	0	-	-	-	0

0.9

		1.1	
Inte	rco	CTI	nn
IIIIC	130	υu	

Int Delay, s/veh

y .													
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR	
Lane Configurations		4			4			4			4		
Traffic Vol, veh/h	10	236	5	9	233	11	3	2	0	7	1	12	
Future Vol, veh/h	10	236	5	9	233	11	3	2	0	7	1	12	
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0	
Sign Control	Free	Free	Free	Free	Free	Free	Stop	Stop	Stop	Stop	Stop	Stop	
RT Channelized	-	-	None										
Storage Length	-	-	-	-	-	-	-	-	-	-	-	-	
Veh in Median Storage	,# -	0	-	-	0	-	-	0	-	-	0	-	
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-	
Peak Hour Factor	87	87	87	87	87	87	87	87	87	87	87	87	
Heavy Vehicles, %	0	1	0	0	2	0	0	0	0	0	0	0	
Mvmt Flow	11	271	6	10	268	13	3	2	0	8	1	14	

Major/Minor M	Major1		ſ	Major2		1	Vinor1		Ν	/linor2			
Conflicting Flow All	281	0	0	277	0	0	598	597	274	592	594	275	
Stage 1	-	-	-	-	-	-	296	296	-	295	295	-	
Stage 2	-	-	-	-	-	-	302	301	-	297	299	-	
Critical Hdwy	4.1	-	-	4.1	-	-	7.1	6.5	6.2	7.1	6.5	6.2	
Critical Hdwy Stg 1	-	-	-	-	-	-	6.1	5.5	-	6.1	5.5	-	
Critical Hdwy Stg 2	-	-	-	-	-	-	6.1	5.5	-	6.1	5.5	-	
Follow-up Hdwy	2.2	-	-	2.2	-	-	3.5	4	3.3	3.5	4	3.3	
Pot Cap-1 Maneuver	1293	-	-	1298	-	-	417	419	770	421	421	769	
Stage 1	-	-	-	-	-	-	717	672	-	718	673	-	
Stage 2	-	-	-	-	-	-	712	669	-	716	670	-	
Platoon blocked, %		-	-		-	-							
Mov Cap-1 Maneuver	1293	-	-	1298	-	-	403	411	770	413	413	769	
Mov Cap-2 Maneuver	-	-	-	-	-	-	403	411	-	413	413	-	
Stage 1	-	-	-	-	-	-	710	665	-	711	667	-	
Stage 2	-	-	-	-	-	-	692	663	-	706	663	-	
Approach	EB			WB			NB			SB			
HCM Control Delay, s	0.3			0.3			14			11.6			
HCM LOS							В			В			
Minor Lane/Major Mvm	t ľ	VBLn1	EBL	EBT	EBR	WBL	WBT	WBR S	SBLn1				
Capacity (veh/h)		406	1293	-	-	1298	-	-	572				
HCM Lane V/C Ratio		0.014	0.009	-	-	0.008	-	-	0.04				
HCM Control Delay (s)		14	7.8	0	-	7.8	0	-	11.6				
HCM Lane LOS		В	А	А	-	А	А	-	В				
HCM 95th %tile Q(veh)		0	0	-	-	0	-	-	0.1				

Intersection

Int Delay, s/veh	4.1					
Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations		Ą	4Î		Y	
Traffic Vol, veh/h	4	9	16	1	3	18
Future Vol, veh/h	4	9	16	1	3	18
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	0	-
Veh in Median Storage,	# -	0	0	-	0	-
Grade, %	-	0	0	-	0	-
Peak Hour Factor	80	80	80	80	80	80
Heavy Vehicles, %	0	0	0	0	0	0
Mvmt Flow	5	11	20	1	4	23

Major/Minor	Major1	Ν	/lajor2	1	Minor2	
Conflicting Flow All	21	0	-	0	42	21
Stage 1	-	-	-	-	21	-
Stage 2	-	-	-	-	21	-
Critical Hdwy	4.1	-	-	-	6.4	6.2
Critical Hdwy Stg 1	-	-	-	-	5.4	-
Critical Hdwy Stg 2	-	-	-	-	5.4	-
Follow-up Hdwy	2.2	-	-	-	3.5	3.3
Pot Cap-1 Maneuver	1608	-	-	-	974	1062
Stage 1	-	-	-	-	1007	-
Stage 2	-	-	-	-	1007	-
Platoon blocked, %		-	-	-		
Mov Cap-1 Maneuver		-	-	-	971	1062
Mov Cap-2 Maneuver	r -	-	-	-	971	-
Stage 1	-	-	-	-	1004	-
Stage 2	-	-	-	-	1007	-
Approach	EB		WB		SB	
HCM Control Delay, s	5 2.2		0		8.5	
HCM LOS					А	
Minor Lane/Major Mvi	mt	EBL	EBT	WBT	WBR S	SBLn1
Capacity (veh/h)		1608	-	-	-	1048
HCM Lane V/C Ratio		0.003	-	-	-	0.025
HCM Control Delay (s	s)	7.2	0	-	-	8.5
HCM Lane LOS		А	А	-	-	А
HCM 95th %tile Q(vel	h)	0	-	-	-	0.1

<u>Capacity Analysis Summary Sheets</u> Year 2029 Total Projected Weekday Morning Peak Hour

Lanes, Volumes, Timings 1: Graceland Avenue & Thacker Street

	٠		~	4	+	•	•	Ť	*	1	Ţ	~
Lane Group	EBL	EBT	EBR	▼ WBL	WBT	WBR	NBL	NBT	NBR	SBL	▼ SBT	SBR
Lane Configurations	LDL	101 1	LDI			WDI	NDL	NDT	NDI	<u></u>	 ∱ }	JUN
Traffic Volume (vph)	0	246	38	53	† 165	0	0	0	0	106	T P 513	85
Future Volume (vph)	0	240	30 38	53	165	0	0	0	0	106	513	85
· · · ·	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	
Ideal Flow (vphpl)		1900		25	1900			1900			1900	1900
Storage Length (ft)	0		0	25 1		0	0		0 0	0		0
Storage Lanes	0 25		0	25		0	0 25		U	25		U
Taper Length (ft)		1 00	1.00		1.00	1.00		1 00	1 00		0.05	0.05
Lane Util. Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.95	0.95
Frt Filt Drote start		0.982								0.050	0.979	
Flt Protected	0	1774	0	0.950	1010	0	0	0	0	0.950	2204	0
Satd. Flow (prot)	0	1774	0	1719	1810	0	0	0	0	1752	3384	0
Flt Permitted	0	1774	0	0.287	1010	0	0	0	0	0.950	2204	0
Satd. Flow (perm)	0	1774	0	519	1810	0	0	0	0	1752	3384	0
Right Turn on Red			Yes			Yes			Yes		24	Yes
Satd. Flow (RTOR)		7			20			20			26	
Link Speed (mph)		30			30			30			30	
Link Distance (ft)		192			276			397			453	_
Travel Time (s)	<u> </u>	4.4			6.3	0.07	<u> </u>	9.0			10.3	
Peak Hour Factor	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96
Heavy Vehicles (%)	0%	6%	0%	5%	5%	0%	0%	0%	0%	3%	4%	7%
Shared Lane Traffic (%)	-											
Lane Group Flow (vph)	0	296	0	55	172	0	0	0	0	110	623	0
Turn Type		NA		Perm	NA					Perm	NA	
Protected Phases		4			8						6	
Permitted Phases				8						6		
Detector Phase		4		8	8					6	6	
Switch Phase												
Minimum Initial (s)		1.0		10.0	10.0					10.0	10.0	
Minimum Split (s)		22.5		22.5	22.5					22.5	22.5	
Total Split (s)		45.0		45.0	45.0					75.0	75.0	
Total Split (%)		37.5%		37.5%	37.5%					62.5%	62.5%	
Yellow Time (s)		4.5		4.5	4.5					4.5	4.5	
All-Red Time (s)		1.5		1.5	1.5					1.5	1.5	
Lost Time Adjust (s)		0.0		0.0	0.0					0.0	0.0	
Total Lost Time (s)		6.0		6.0	6.0					6.0	6.0	
Lead/Lag												
Lead-Lag Optimize?												
Recall Mode		None		None	None					C-Min	C-Min	
Act Effct Green (s)		25.1		25.1	25.1					82.9	82.9	
Actuated g/C Ratio		0.21		0.21	0.21					0.69	0.69	
v/c Ratio		0.79		0.51	0.46					0.09	0.27	
Control Delay		58.3		56.4	43.7					7.4	7.7	
Queue Delay		0.0		0.0	0.0					0.0	0.0	
Total Delay		58.3		56.4	43.7					7.4	7.7	
LOS		E		E	D					А	А	
Approach Delay		58.3			46.8						7.6	
Approach LOS		E			D						А	
Queue Length 50th (ft)		214		43	134					25	82	
Queue Length 95th (ft)		290		87	200					56	135	

Lanes, Volumes, Timings <u>1: Graceland Avenue & Thacker Street</u>

1. Oldoolalla / 100			01									
	≯ _	• •		+	•	•	Ť	*	1	ţ	~	
Lane Group	EBL E	BT EB	R WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SB	
Internal Link Dist (ft)	1	12		196			317			373		
Turn Bay Length (ft)			25									
Base Capacity (vph)	5	81	168	588					1210	2346		
Starvation Cap Reductn		0	0	0					0	0		
Spillback Cap Reductn		0	0	0					0	0		
Storage Cap Reductn		0	0	0					0	0		
Reduced v/c Ratio	0.	51	0.33	0.29					0.09	0.27		
Intersection Summary												
Area Type:	Other											
Cycle Length: 120												
Actuated Cycle Length: 12												
Offset: 81.6 (68%), Refere	enced to phase 2:	and 6:SB1	L, Start of C	Green								
Natural Cycle: 45												
Control Type: Actuated-Co	pordinated											
Maximum v/c Ratio: 0.79												
Intersection Signal Delay:				ntersection								
Intersection Capacity Utiliz	zation 55.5%		[(CU Level	of Service	В						
Analysis Period (min) 15												
Splits and Phases: 1: G	iraceland Avenue	& Thacker	Street									

	→ Ø4	
	45 s	
₩ Ø6 (R) 75 s	₹Ø8	
75 s	45 s	

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06/08/2023

Lanes, Volumes, Timings 2: Lee Street & Thacker Street

06/08/2023

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Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations	<u>م</u>	•			•	1		ፈቀኩ				
Traffic Volume (vph)	89	209	0	0	167	32	55	483	71	0	0	0
Future Volume (vph)	89	209	0	0	167	32	55	483	71	0	0	0
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Storage Length (ft)	25		0	0		0	0		0	0		0
Storage Lanes	1		0	0		1	0		0	0		0
Taper Length (ft)	25			25			25			25		
Lane Util. Factor	1.00	1.00	1.00	1.00	1.00	1.00	0.91	0.91	0.91	1.00	1.00	1.00
Frt						0.850		0.982				
Flt Protected	0.950							0.996				
Satd. Flow (prot)	1687	1881	0	0	1827	1568	0	4794	0	0	0	0
Flt Permitted	0.365							0.996				
Satd. Flow (perm)	648	1881	0	0	1827	1568	0	4794	0	0	0	0
Right Turn on Red			Yes			Yes			Yes			Yes
Satd. Flow (RTOR)						59		20				
Link Speed (mph)		30			30			30			30	
Link Distance (ft)		219			1072			519			495	
Travel Time (s)		5.0			24.4			11.8			11.3	
Peak Hour Factor	0.86	0.86	0.86	0.86	0.86	0.86	0.86	0.86	0.86	0.86	0.86	0.86
Heavy Vehicles (%)	7%	1%	0%	0%	4%	3%	3%	7%	0%	0%	2%	2%
Shared Lane Traffic (%)												
Lane Group Flow (vph)	103	243	0	0	194	37	0	709	0	0	0	0
Turn Type	pm+pt	NA			NA	Perm	Perm	NA				
Protected Phases	7	4			8			2				
Permitted Phases	4					8	2					
Detector Phase	7	4			8	8	2	2				
Switch Phase												
Minimum Initial (s)	3.0	8.0			8.0	8.0	15.0	15.0				
Minimum Split (s)	9.5	24.0			24.0	24.0	24.0	24.0				
Total Split (s)	21.0	78.0			57.0	57.0	42.0	42.0				
Total Split (%)	17.5%	65.0%			47.5%	47.5%	35.0%	35.0%				
Yellow Time (s)	3.5	4.0			4.0	4.0	4.0	4.0				
All-Red Time (s)	0.0	2.0			2.0	2.0	2.0	2.0				
Lost Time Adjust (s)	0.0	0.0			0.0	0.0		0.0				
Total Lost Time (s)	3.5	6.0			6.0	6.0		6.0				
Lead/Lag	Lead				Lag	Lag						
Lead-Lag Optimize?	Yes				Yes	Yes						
Recall Mode	None	None			None	None	C-Min	C-Min				
Act Effct Green (s)	36.9	34.4			19.2	19.2		73.6				
Actuated g/C Ratio	0.31	0.29			0.16	0.16		0.61				
v/c Ratio	0.34	0.45			0.66	0.12		0.24				
Control Delay	30.9	35.1			57.8	4.9		11.4				
Queue Delay	0.0	0.0			0.0	0.0		0.0				
Total Delay	30.9	35.1			57.8	4.9		11.4				
LOS	С	D			E	А		В				
Approach Delay		33.8			49.3			11.4				
Approach LOS		С			D			В				
Queue Length 50th (ft)	75	184			143	0		82				
Queue Length 95th (ft)	114	243			197	12		124				
<u> </u>								-				

Lanes, Volumes, Timings 2: Lee Street & Thacker Street

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Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Internal Link Dist (ft)		139			992			439			415	
Turn Bay Length (ft)	25											
Base Capacity (vph)	351	1128			776	700		2946				
Starvation Cap Reductn	0	0			0	0		0				
Spillback Cap Reductn	0	0			0	0		0				
Storage Cap Reductn	0	0			0	0		0				
Reduced v/c Ratio	0.29	0.22			0.25	0.05		0.24				
Intersection Summary												
Area Type:	Other											
Cycle Length: 120												
Actuated Cycle Length: 12												
Offset: 0 (0%), Referenced	to phase 2:	NBTL, Sta	art of Gre	en								
Natural Cycle: 60												
Control Type: Actuated-Co	ordinated											
Maximum v/c Ratio: 0.66												
Intersection Signal Delay: 2					tersectior							
Intersection Capacity Utilization	ation 39.6%			IC	CU Level of	of Service	A					
Analysis Period (min) 15												
Splits and Dhasas 2.1 a	o Stroot & T	hackor St	root									

Splits and Phases: 2: Lee Street & Thacker Street

Ø2 (R)	 ₽Ø4	
42 s	78 s	
		 Ø8
	21 s	57 s

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Int Delay, s/veh	0.5					
Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations	- ኘ					-4†
Traffic Vol, veh/h	30	0	0	0	13	612
Future Vol, veh/h	30	0	0	0	13	612
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	-	-	-
Veh in Median Storage	,# 0	-	0	-	-	0
Grade, %	0	-	0	-	-	0
Peak Hour Factor	94	94	94	94	94	94
Heavy Vehicles, %	13	0	2	2	2	2
Mvmt Flow	32	0	0	0	14	651

Major/Minor	Minor1		Major2		
Conflicting Flow All	354	-	0	0	
Stage 1	0	-	-	-	
Stage 2	354	-	-	-	
Critical Hdwy	7.06	-	4.14	-	
Critical Hdwy Stg 1	-	-	-	-	
Critical Hdwy Stg 2	6.06	-	-	-	
Follow-up Hdwy	3.63	-	2.22	-	
Pot Cap-1 Maneuver	589	0	-	-	
Stage 1	-	0	-	-	
Stage 2	650	0	-	-	
Platoon blocked, %				-	
Mov Cap-1 Maneuver		-	-	-	
Mov Cap-2 Maneuver	589	-	-	-	
Stage 1	-	-	-	-	
Stage 2	650	-	-	-	

Approach	WB	SB	
HCM Control Delay, s	11.5		
HCM LOS	В		

Minor Lane/Major Mvmt	WBLn1	SBL	SBT
Capacity (veh/h)	589	-	-
HCM Lane V/C Ratio	0.054	-	-
HCM Control Delay (s)	11.5	-	-
HCM Lane LOS	В	-	-
HCM 95th %tile Q(veh)	0.2	-	-

Attachment 13

Intersection Int Delay, s/veh 0.3 EBL EBR NBL SBR Movement NBT SBT **†₁** 632 Lane Configurations ۴ 18 Traffic Vol, veh/h 0 0 0 10 Future Vol, veh/h 0 18 0 0 632 10 Conflicting Peds, #/hr 0 0 0 0 0 0 Stop Sign Control Stop Free Free Free Free RT Channelized None None None ---Storage Length -0 _ ---Veh in Median Storage, # 0 0 0 ---Grade, % 0 0 0 ---Peak Hour Factor 95 95 95 95 95 95 Heavy Vehicles, % 0 6 0 0 4 20 Mvmt Flow 0 19 0 0 665 11

Major/Minor N	Vinor2			Ma	ajor2	
Conflicting Flow All	-	338			-	0
Stage 1	-	-			-	-
Stage 2	-	-			-	-
Critical Hdwy	-	7.02			-	-
Critical Hdwy Stg 1	-	-			-	-
Critical Hdwy Stg 2	-	-			-	-
Follow-up Hdwy	-	3.36			-	-
Pot Cap-1 Maneuver	0	646			-	-
Stage 1	0	-			-	-
Stage 2	0	-			-	-
Platoon blocked, %					-	-
Mov Cap-1 Maneuver	-	646			-	-
Mov Cap-2 Maneuver	-	-			-	-
Stage 1	-	-			-	-
Stage 2	-	-			-	-
Approach	EB				SB	
HCM Control Delay, s	10.7				0	
HCM LOS	В					
Minor Lane/Major Mvm	nt E	EBLn1	SBT	SBR		
	n E		301	JUK		_
Capacity (veh/h)		646	-	-		
HCM Lane V/C Ratio		0.029	-	-		
HCM Control Delay (s)		10.7	-	-		
HCM Lane LOS		В	-	-		

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HCM 95th %tile Q(veh)

0.1

0.4

Intersection

Int Delay, s/veh

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR	
Lane Configurations		÷			el e			सी					
Traffic Vol, veh/h	6	5	0	0	5	3	27	589	21	0	0	0	
Future Vol, veh/h	6	5	0	0	5	3	27	589	21	0	0	0	
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0	
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free	Free	Free	Free	
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None	
Storage Length	-	-	-	-	-	-	-	-	-	-	-	-	
Veh in Median Storage,	# -	0	-	-	0	-	-	0	-	-	0	-	
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-	
Peak Hour Factor	98	98	98	98	98	98	98	98	98	98	98	98	
Heavy Vehicles, %	50	0	0	0	0	0	0	3	0	0	0	0	
Mvmt Flow	6	5	0	0	5	3	28	601	21	0	0	0	

Major/Minor	Minor2		Ν	/linor1		Ν	lajor1		
Conflicting Flow All	359	678	-	-	668	311	0	0	0
Stage 1	0	0	-	-	668	-	-	-	-
Stage 2	359	678	-	-	0	-	-	-	-
Critical Hdwy	8.5	6.5	-	-	6.5	6.9	4.1	-	-
Critical Hdwy Stg 1	-	-	-	-	5.5	-	-	-	-
Critical Hdwy Stg 2	7.5	5.5	-	-	-	-	-	-	-
Follow-up Hdwy	4	4	-	-	4	3.3	2.2	-	-
Pot Cap-1 Maneuver	468	377	0	0	382	691	-	-	-
Stage 1	-	-	0	0	459	-	-	-	-
Stage 2	517	455	0	0	-	-	-	-	-
Platoon blocked, %								-	-
Mov Cap-1 Maneuver		377	-	-	382	691	-	-	-
Mov Cap-2 Maneuver	461	377	-	-	382	-	-	-	-
Stage 1	-	-	-	-	459	-	-	-	-
Stage 2	509	455	-	-	-	-	-	-	-
Approach	EB			WB			NB		
HCM Control Delay, s	13.8			13					
HCM LOS	В			В					
Minor Lane/Major Mvr	nt	NBL	NBT	NBR E	EBLn1V	VBLn1			
Capacity (veh/h)		-	-	-	419	459			
HCM Lane V/C Ratio		-	-	-		0.018			
HCM Control Delay (s	.)	-	-	-	13.8	13			
HCM Lane LOS		-	-	-	В	В			

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0.1

0.1

HCM 95th %tile Q(veh)

Int Delay, s/veh	0.2					
Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations		÷	et -		Y	
Traffic Vol, veh/h	3	277	238	10	3	7
Future Vol, veh/h	3	277	238	10	3	7
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	0	-
Veh in Median Storage,	# -	0	0	-	0	-
Grade, %	-	0	0	-	0	-
Peak Hour Factor	93	93	93	93	93	93
Heavy Vehicles, %	0	3	8	0	0	0
Mvmt Flow	3	298	256	11	3	8

Major/Minor	Major1	Ν	/lajor2	Ν	Ainor2	
Conflicting Flow All	267	0	-	0	566	262
Stage 1	-	-	-	-	262	-
Stage 2	-	-	-	-	304	-
Critical Hdwy	4.1	-	-	-	6.4	6.2
Critical Hdwy Stg 1	-	-	-	-	5.4	-
Critical Hdwy Stg 2	-	-	-	-	5.4	-
Follow-up Hdwy	2.2	-	-	-	3.5	3.3
Pot Cap-1 Maneuver	1308	-	-	-	489	782
Stage 1	-	-	-	-	786	-
Stage 2	-	-	-	-	753	-
Platoon blocked, %		-	-	-		
Mov Cap-1 Maneuver		-	-	-	488	782
Mov Cap-2 Maneuver	-	-	-	-	488	-
Stage 1	-	-	-	-	784	-
Stage 2	-	-	-	-	753	-
Approach	EB		WB		SB	
HCM Control Delay, s	0.1		0		10.5	
HCM LOS					В	
Minor Lane/Major Mvr	nt	EBL	EBT	WBT	WBR S	SBLn1
Capacity (veh/h)		1308	-	-	-	662
HCM Lane V/C Ratio		0.002	-	-	-	0.016
HCM Control Delay (s)	7.8	0	-	-	10.5
HCM Lane LOS		А	А	-	-	В
HCM 95th %tile Q(veh	1)	0	-	-	-	0.1

1

Intersection

Int Delay, s/veh

j,						
Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations		ب	el 👘		Y	
Traffic Vol, veh/h	31	267	226	20	12	18
Future Vol, veh/h	31	267	226	20	12	18
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	0	-
Veh in Median Storage,	,# -	0	0	-	0	-
Grade, %	-	0	0	-	0	-
Peak Hour Factor	94	94	94	94	94	94
Heavy Vehicles, %	3	5	5	11	17	18
Mvmt Flow			240	21	13	19

Major/Minor	Major1	Ν	lajor2	[Vinor2	
Conflicting Flow All	261	0	-	0	601	251
Stage 1	-	-	-	-	251	-
Stage 2	-	-	-	-	350	-
Critical Hdwy	4.13	-	-	-	6.57	6.38
Critical Hdwy Stg 1	-	-	-	-	5.57	-
Critical Hdwy Stg 2	-	-	-	-	5.57	-
Follow-up Hdwy	2.227	-	-	-	3.653	
Pot Cap-1 Maneuver	1298	-	-	-	440	750
Stage 1	-	-	-	-	757	-
Stage 2	-	-	-	-	681	-
Platoon blocked, %		-	-	-		
Mov Cap-1 Maneuver		-	-	-	427	750
Mov Cap-2 Maneuver	r -	-	-	-	427	-
Stage 1	-	-	-	-	734	-
Stage 2	-	-	-	-	681	-
Approach	EB		WB		SB	
HCM Control Delay, s	6.0.8		0		11.6	
HCM LOS					В	
Minor Lane/Major Mv	mt	EBL	EBT	WBT	WBR S	SBLn1
Capacity (veh/h)		1298	-	-	-	576
HCM Lane V/C Ratio		0.025	-	-	-	0.055
HCM Control Delay (s	s)	7.8	0	-	-	11.6
HCM Lane LOS		А	А	-	-	В
HCM 95th %tile Q(ve	h)	0.1	-	-	-	0.2

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Attachment 13

Intersection Int Delay, s/veh 0.7 EBT EBR WBL WBT NBR Movement NBL Lane Configurations Þ đ ¥ 285 12 13 Traffic Vol, veh/h 12 231 13 Future Vol, veh/h 285 12 12 231 13 13 Conflicting Peds, #/hr 0 0 0 0 0 0 Sign Control Stop Stop Free Free Free Free RT Channelized None -None None --Storage Length 0 --_ --Veh in Median Storage, # 0 -0 0 --Grade, % 0 0 0 ---Peak Hour Factor 90 90 90 90 90 90 Heavy Vehicles, % 4 0 8 6 0 0 Mvmt Flow 317 13 257 14 14 13

Major/Minor N	1ajor1	N	Najor2	Ν	/linor1	
Conflicting Flow All	0	0	330	0	607	324
Stage 1	-	-	-	-	324	-
Stage 2	-	-	-	-	283	-
Critical Hdwy	-	-	4.18	-	6.4	6.2
Critical Hdwy Stg 1	-	-	-	-	5.4	-
Critical Hdwy Stg 2	-	-	-	-	5.4	-
Follow-up Hdwy	-	-	2.272	-	3.5	3.3
Pot Cap-1 Maneuver	-	-	1197	-	463	722
Stage 1	-	-	-	-	738	-
Stage 2	-	-	-	-	770	-
Platoon blocked, %	-	-		-		
Mov Cap-1 Maneuver	-	-	1197	-	457	722
Mov Cap-2 Maneuver	-	-	-	-	457	-
Stage 1	-	-	-	-	738	-
Stage 2	-	-	-	-	760	-
Approach	EB		WB		NB	
HCM Control Delay, s	0		0.4		11.8	
HCM LOS			0.1		В	
		IDI1	EDT			
Minor Lane/Major Mvmt	. ľ	VBLn1	EBT	EBR	WBL	WBT
Capacity (veh/h)		560	-	-	1197	-
HCM Lane V/C Ratio		0.052	-	-	0.011	-
HCM Control Delay (s)		11.8	-	-	8	0
HCM Lane LOS		В	-	-	A	А
HCM 95th %tile Q(veh)		0.2	-	-	0	-

Intersection						
Int Delay, s/veh	0.4					
Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations		- सी	4		۰¥	
Traffic Vol, veh/h	8	278	238	7	4	9
Future Vol, veh/h	8	278	238	7	4	9
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	0	-
Veh in Median Storage	e, # -	0	0	-	0	-
Grade, %	-	0	0	-	0	-
Peak Hour Factor	91	91	91	91	91	91
Heavy Vehicles, %	0	5	5	0	0	0
Mvmt Flow	9	305	262	8	4	10

Major/Minor	Major1	Ν	/lajor2	Ν	Ainor2	
Conflicting Flow All	270	0	-	0	589	266
Stage 1	-	-	-	-	266	-
Stage 2	-	-	-	-	323	-
Critical Hdwy	4.1	-	-	-	6.4	6.2
Critical Hdwy Stg 1	-	-	-	-	5.4	-
Critical Hdwy Stg 2	-	-	-	-	5.4	-
Follow-up Hdwy	2.2	-	-	-	3.5	3.3
Pot Cap-1 Maneuver	1305	-	-	-	474	778
Stage 1	-	-	-	-	783	-
Stage 2	-	-	-	-	738	-
Platoon blocked, %		-	-	-		
Mov Cap-1 Maneuve		-	-	-	470	778
Mov Cap-2 Maneuve	r -	-	-	-	470	-
Stage 1	-	-	-	-	777	-
Stage 2	-	-	-	-	738	-
Approach	EB		WB		SB	
HCM Control Delay,	s 0.2		0		10.7	
HCM LOS					В	
Minor Lane/Major Mv	vmt	EBL	EBT	WBT	WBR S	SBLn1
Capacity (veh/h)		1305	-	-	-	647
HCM Lane V/C Ratio)	0.007	-	-	-	0.022
HCM Control Delay (s)	7.8	0	-	-	10.7
HCM Lane LOS		А	А	-	-	В
HCM 95th %tile Q(ve	eh)	0	-	-	-	0.1

2.7

Intersection

Int Delay, s/veh

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR	
Lane Configurations		\$			\$			÷			\$		
Traffic Vol, veh/h	62	280	10	2	175	50	9	22	12	6	11	40	
Future Vol, veh/h	62	280	10	2	175	50	9	22	12	6	11	40	
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0	
Sign Control	Free	Free	Free	Free	Free	Free	Stop	Stop	Stop	Stop	Stop	Stop	
RT Channelized	-	-	None										
Storage Length	-	-	-	-	-	-	-	-	-	-	-	-	
Veh in Median Storage,	# -	0	-	-	0	-	-	0	-	-	0	-	
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-	
Peak Hour Factor	91	91	91	91	91	91	91	91	91	91	91	91	
Heavy Vehicles, %	0	4	0	0	4	0	0	0	0	0	0	0	
Mvmt Flow	68	308	11	2	192	55	10	24	13	7	12	44	

Major/Minor	Major1		1	Major2		1	Minor1		Ν	/linor2			
Conflicting Flow All	247	0	0	319	0	0	702	701	314	692	679	220	
Stage 1	-	-	-	-	-	-	450	450	-	224	224	-	
Stage 2	-	-	-	-	-	-	252	251	-	468	455	-	
Critical Hdwy	4.1	-	-	4.1	-	-	7.1	6.5	6.2	7.1	6.5	6.2	
Critical Hdwy Stg 1	-	-	-	-	-	-	6.1	5.5	-	6.1	5.5	-	
Critical Hdwy Stg 2	-	-	-	-	-	-	6.1	5.5	-	6.1	5.5	-	
Follow-up Hdwy	2.2	-	-	2.2	-	-	3.5	4	3.3	3.5	4	3.3	
Pot Cap-1 Maneuver	1331	-	-	1252	-	-	355	365	731	361	376	825	
Stage 1	-	-	-	-	-	-	592	575	-	783	722	-	
Stage 2	-	-	-	-	-	-	757	703	-	579	572	-	
Platoon blocked, %		-	-		-	-							
Mov Cap-1 Maneuver	1331	-	-	1252	-	-	311	342	731	319	352	825	
Mov Cap-2 Maneuver	-	-	-	-	-	-	311	342	-	319	352	-	
Stage 1	-	-	-	-	-	-	555	539	-	734	721	-	
Stage 2	-	-	-	-	-	-	703	702	-	509	537	-	
Approach	EB			WB			NB			SB			
HCM Control Delay, s	1.4			0.1			15.4			12			
HCM LOS							С			В			
Minor Lane/Major Mvm	nt	NBLn1	EBL	EBT	EBR	WBL	WBT	WBR S	SBI n1				
Capacity (veh/h)		392	1331		-	1252	-	-	578				
HCM Lane V/C Ratio		0.121	0.051	-	-	0.002	-	-	0.108				
HCM Control Delay (s)		15.4	7.9	0	-	7.9	0	-	12				
HCM Lane LOS		С	A	Â	-	A	A	-	B				
HCM 95th %tile Q(veh))	0.4	0.2	-	-	0	-	-	0.4				

Intersection						
Int Delay, s/veh	2.6					
Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations		- द	el 👘		Y	
Traffic Vol, veh/h	3	6	11	20	0	14
Future Vol, veh/h	3	6	11	20	0	14
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	0	-
Veh in Median Storage	,# -	0	0	-	0	-
Grade, %	-	0	0	-	0	-
Peak Hour Factor	61	61	61	61	61	61
Heavy Vehicles, %	0	0	10	0	2	0
Mvmt Flow	5	10	18	33	0	23

Major/Minor	Major1	Ν	/lajor2	[Vinor2	
Conflicting Flow All	51	0	-	0	55	35
Stage 1	-	-	-	-	35	-
Stage 2	-	-	-	-	20	-
Critical Hdwy	4.1	-	-	-	6.42	6.2
Critical Hdwy Stg 1	-	-	-	-	5.42	-
Critical Hdwy Stg 2	-	-	-	-	5.42	-
Follow-up Hdwy	2.2	-	-	-	3.518	3.3
Pot Cap-1 Maneuver	1568	-	-	-	953	1044
Stage 1	-	-	-	-	987	-
Stage 2	-	-	-	-	1003	-
Platoon blocked, %		-	-	-		
Mov Cap-1 Maneuver		-	-	-	950	1044
Mov Cap-2 Maneuver		-	-	-	950	-
Stage 1	-	-	-	-	984	-
Stage 2	-	-	-	-	1003	-
Approach	EB		WB		SB	
HCM Control Delay, s	2.4		0		8.5	
HCM LOS					А	
Minor Lane/Major Mvr	nt	EBL	EBT	WBT	WBR S	SBLn1
Capacity (veh/h)		1568	-	-	-	1044
HCM Lane V/C Ratio		0.003	-	-	-	0.022
HCM Control Delay (s)	7.3	0	-	-	8.5
HCM Lane LOS		А	А	-	-	А
HCM 95th %tile Q(veh	ı)	0	-	-	-	0.1

Intersection						
Int Delay, s/veh	0.2					
Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations		1			≜ î≽	
Traffic Vol, veh/h	0	11	0	0	607	4
Future Vol, veh/h	0	11	0	0	607	4
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	-	0	-	-	-	-
Veh in Median Storage	e, # 0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	95	95	95	95	95	95
Heavy Vehicles, %	0	0	0	0	4	0
Mvmt Flow	0	12	0	0	639	4

Major/Minor	Minor2			Maj	or2		
Conflicting Flow All	-	322			-	0	
Stage 1	-	-			-	-	
Stage 2	-	-			-	-	
Critical Hdwy	-	6.9			-	-	
Critical Hdwy Stg 1	-	-			-	-	
Critical Hdwy Stg 2	-	-			-	-	
Follow-up Hdwy	-	3.3			-	-	
Pot Cap-1 Maneuver	0	680			-	-	
Stage 1	0	-			-	-	
Stage 2	0	-			-	-	
Platoon blocked, %					-	-	
Mov Cap-1 Maneuver	-	680			-	-	
Mov Cap-2 Maneuver	-	-			-	-	
Stage 1	-	-			-	-	
Stage 2	-	-			-	-	
Approach	EB				SB		
HCM Control Delay, s					0		
HCM LOS	В						
		- DI 1	CDT	CDD			
Minor Lane/Major Mvn	n E	EBLn1	SBT	SBR		_	
Capacity (veh/h)		680	-	-			
HCM Lane V/C Ratio		0.017	-	-			

	0.017		
HCM Control Delay (s)	10.4	-	-
HCM Lane LOS	В	-	-
HCM 95th %tile Q(veh)	0.1	-	-

Int Delay, s/veh	0.5					
Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations	et e			ب ا	Y	
Traffic Vol, veh/h	275	2	4	243	5	16
Future Vol, veh/h	275	2	4	243	5	16
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	0	-
Veh in Median Storage	e, # 0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	95	95	95	95	95	95
Heavy Vehicles, %	5	0	0	5	0	0
Mvmt Flow	289	2	4	256	5	17

Major/Minor N	1ajor1	Ν	/lajor2	ſ	Minor1	
Conflicting Flow All	0	0	291	0	554	290
Stage 1	-	-	-	-	290	-
Stage 2	-	-	-	-	264	-
Critical Hdwy	-	-	4.1	-	6.4	6.2
Critical Hdwy Stg 1	-	-	-	-	5.4	-
Critical Hdwy Stg 2	-	-	-	-	5.4	-
Follow-up Hdwy	-	-	2.2	-	3.5	3.3
Pot Cap-1 Maneuver	-	-	1282	-	497	754
Stage 1	-	-	-	-	764	-
Stage 2	-	-	-	-	785	-
Platoon blocked, %	-	-		-		
Mov Cap-1 Maneuver	-	-	1282	-	495	754
Mov Cap-2 Maneuver	-	-	-	-	495	-
Stage 1	-	-	-	-	764	-
Stage 2	-	-	-	-	782	-
Approach	EB		WB		NB	
HCM Control Delay, s	0		0.1		10.6	
HCM LOS					В	
Minor Lang/Major Mumt		IBLn1	EBT	EDD	\//DI	WBT
Minor Lane/Major Mvmt			EDI	EBR	WBL	VVDI
Capacity (veh/h)		670	-		1282	-
HCM Lane V/C Ratio		0.033	-		0.003	-
HCM Control Delay (s) HCM Lane LOS		10.6 B	-	-	7.8	0
HCM 95th %tile Q(veh)		в 0.1	-	-	A 0	А
		U. I	-	-	0	-

Int Delay, s/veh	0.6						
Movement	EBL	EBT	WBT	WBR	SBL	SBR	
Lane Configurations		÷	el 👘		Y		
Traffic Vol, veh/h	1	13	41	1	0	3	
Future Vol, veh/h	1	13	41	1	0	3	
Conflicting Peds, #/hr	0	0	0	0	0	0	

Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	0	-
Veh in Median Storage	,# -	0	0	-	0	-
Grade, %	-	0	0	-	0	-
Peak Hour Factor	95	95	95	95	95	95
Heavy Vehicles, %	0	0	0	0	0	0
Mvmt Flow	1	14	43	1	0	3

Major/Minor	Major1	Ν	/lajor2	ľ	Minor2	
Conflicting Flow All	44	0	-	0	60	44
Stage 1	-	-	-	-	44	-
Stage 2	-	-	-	-	16	-
Critical Hdwy	4.1	-	-	-	6.4	6.2
Critical Hdwy Stg 1	-	-	-	-	5.4	-
Critical Hdwy Stg 2	-	-	-	-	5.4	-
Follow-up Hdwy	2.2	-	-	-	3.5	3.3
Pot Cap-1 Maneuver	1577	-	-	-	952	1032
Stage 1	-	-	-	-	984	-
Stage 2	-	-	-	-	1012	-
Platoon blocked, %		-	-	-		
Mov Cap-1 Maneuver	1577	-	-	-	951	1032
Mov Cap-2 Maneuver	-	-	-	-	951	-
Stage 1	-	-	-	-	983	-
Stage 2	-	-	-	-	1012	-
Approach	EB		WB		SB	
HCM Control Delay, s	0.5		0		8.5	
HCM LOS					А	
Minor Lane/Major Mvn	nt	EBL	EBT	WBT	WBR S	SBLn1
Capacity (veh/h)		1577	-	-	-	1032
HCM Lane V/C Ratio		0.001	-	-		0.003
HCM Control Delay (s))	7.3	0	-	-	8.5
HCM Lane LOS		А	А	-	-	А
HCM 95th %tile Q(veh	ı)	0	-	-	-	0

Intersection						
Int Delay, s/veh	2.7					
Movement	NDI	NDT	CDT	SBR	CEI	SER
Movement	NBL	NBT	SBT	SBK	SEL	SER
Lane Configurations		- सी	4		۰¥	
Traffic Vol, veh/h	0	3	11	1	7	0
Future Vol, veh/h	0	3	11	1	7	0
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	0	-
Veh in Median Storag	IP# -	0	0	-	0	-
Grade, %	0, "	0	0	-	0	-
Peak Hour Factor	95	95	95	95	95	95
Heavy Vehicles, %	0	0	0	0	0	0
Mvmt Flow	0	3	12	1	7	0
Major/Minor	Major1	Ν	/lajor2	٨	/linor2	
Conflicting Flow All	13	0		0	16	13
	13	0	-	0	13	
Stage 1	-	-	-	-	13	-

Commenting Flow All	15	0	-	0	10	15
Stage 1	-	-	-	-	13	-
Stage 2	-	-	-	-	3	-
Critical Hdwy	4.1	-	-	-	6.4	6.2
Critical Hdwy Stg 1	-	-	-	-	5.4	-
Critical Hdwy Stg 2	-	-	-	-	5.4	-
Follow-up Hdwy	2.2	-	-	-	3.5	3.3
Pot Cap-1 Maneuver	1619	-	-	-	1008	1073
Stage 1	-	-	-	-	1015	-
Stage 2	-	-	-	-	1025	-
Platoon blocked, %		-	-	-		
Mov Cap-1 Maneuver	1619	-	-	-	1008	1073
Mov Cap-2 Maneuver	-	-	-	-	1008	-
Stage 1	-	-	-	-	1015	-
Stage 2	-	-	-	-	1025	-
Approach	NB		SB		SE	
HCM Control Delay, s	0		0		8.6	
HCM LOS					А	
Minor Lane/Major Mvm	nt	NBL	NBT S	ELn1	SBT	SBR
Capacity (veh/h)		1619	-	1008	-	-
HCM Lane V/C Ratio		-	-	0.007	-	-
HCM Control Delay (s))	0	-	8.6	-	-
HCM Lane LOS		А	-	А	-	-
HCM 95th %tile Q(veh))	0	-	0	-	-

Capacity Analysis Summary Sheets Year 2029 Total Projected Weekday Evening Peak Hour

Lanes, Volumes, Timings 1: Graceland Avenue & Thacker Street

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Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations	202	¢,	2011	1	<u></u>					<u> </u>	≜ î∌	0.511
Traffic Volume (vph)	0	225	47	69	224	0	0	0	0	56	520	144
Future Volume (vph)	0	225	47	69	224	0	0	0	0	56	520	144
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Storage Length (ft)	0	1700	0	25	1700	0	0	1700	0	0	1700	0
Storage Lanes	0		0	1		0	0		0	1		0
Taper Length (ft)	25		0	25		0	25		0	25		U
Lane Util. Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.95	0.95
Frt	1.00	0.977	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.967	0.75
Flt Protected		0.711		0.950						0.950	0.707	
Satd. Flow (prot)	0	1835	0	1770	1845	0	0	0	0	1805	3422	0
Flt Permitted	0	1033	0	0.271	1045	0	0	0	0	0.950	J422	U
Satd. Flow (perm)	0	1835	0	505	1845	0	0	0	0	1805	3422	0
Right Turn on Red	0	1055	Yes	505	1045	Yes	0	0	Yes	1005	J4ZZ	Yes
Satd. Flow (RTOR)		9	162			162			162		55	162
Link Speed (mph)		30			30			30			30	
Link Distance (ft)		192			276			30 397			453	
.,		4.4			6.3			9.0			10.3	
Travel Time (s)	0.90		0.00	0.00		0.00	0.00		0.00	0.00		0.00
Peak Hour Factor		0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90
Heavy Vehicles (%)	0%	1%	2%	2%	3%	0%	0%	0%	0%	0%	2%	2%
Shared Lane Traffic (%)	0	202	0	77	240	0	0	0	0	()	720	0
Lane Group Flow (vph)	0	302	0	77	249	0	0	0	0	62	738	0
Turn Type		NA		Perm	NA					Perm	NA	_
Protected Phases		4		0	8						6	
Permitted Phases		4		8	0					6	/	_
Detector Phase		4		8	8					6	6	
Switch Phase		10.0		ГО	ГО					10.0	10.0	_
Minimum Initial (s)		10.0		5.0	5.0					10.0	10.0	
Minimum Split (s)		22.5		22.5	22.5					22.5	22.5	_
Total Split (s)		40.0		40.0	40.0					80.0	80.0	
Total Split (%)		33.3%		33.3%	33.3%					66.7%	66.7%	_
Yellow Time (s)		4.5		4.5	4.5					4.5	4.5	
All-Red Time (s)		1.5		1.0	1.0					1.5	1.5	_
Lost Time Adjust (s)		0.0		0.0	0.0					0.0	0.0	
Total Lost Time (s)		6.0		5.5	5.5					6.0	6.0	_
Lead/Lag												
Lead-Lag Optimize?		News		N	N I							_
Recall Mode		None		None	None					C-Min	C-Min	
Act Effct Green (s)		24.5		25.0	25.0					83.5	83.5	_
Actuated g/C Ratio		0.20		0.21	0.21					0.70	0.70	
v/c Ratio		0.79		0.73	0.65					0.05	0.31	
Control Delay		58.6		80.0	50.0					7.1	7.4	
Queue Delay		0.0		0.0	0.0					0.0	0.0	
Total Delay		58.6		80.0	50.0					7.1	7.4	
LOS		E		E	D					A	A	_
Approach Delay		58.6			57.1						7.4	
Approach LOS		E			E						A	_
Queue Length 50th (ft)		217		62	197					14	96	
Queue Length 95th (ft)		296		#116	278					34	154	

Lanes, Volumes, Timings 1: Graceland Avenue & Thacker Street

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Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Internal Link Dist (ft)		112			196			317			373	
Turn Bay Length (ft)				25								
Base Capacity (vph)		526		145	530					1256	2397	
Starvation Cap Reductn		0		0	0					0	0	
Spillback Cap Reductn		0		0	0					0	0	
Storage Cap Reductn		0		0	0					0	0	
Reduced v/c Ratio		0.57		0.53	0.47					0.05	0.31	
Intersection Summary												
Area Type:	Other											
Cycle Length: 120												
Actuated Cycle Length: 12	0											
Offset: 11.6 (10%), Refere	nced to phas	e 2: and	6:SBTL, S	Start of G	reen							
Natural Cycle: 45												
Control Type: Actuated-Co	ordinated											
Maximum v/c Ratio: 0.79												
Intersection Signal Delay:					tersectior							
Intersection Capacity Utiliz	ation 52.4%			IC	U Level o	of Service	A					
Analysis Period (min) 15												
# 95th percentile volume	•		eue may	be longer								
Queue shown is maxim	um after two	cycles.										

Splits and Phases: 1: Graceland Avenue & Thacker Street

	→ Ø4
	40 s
▼ Ø6 (R)	↓ Ø8
80 s	40 s

PMPR 23-101/23-102 - Apartment Development - Des Plaines 1:14 pm 06/06/2023 Year 2029 Total Projected Weekday Synehing TeleReptorur bsm,sa Page 2

06/08/2023

Lanes, Volumes, Timings 2: Lee Street & Thacker Street

06/08/2023

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Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations	ሻ	†			†	1		-4 ↑ Ъ				
Traffic Volume (vph)	89	167	0	0	197	23	75	553	93	0	0	0
Future Volume (vph)	89	167	0	0	197	23	75	553	93	0	0	0
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Storage Length (ft)	25		0	0		0	0		0	0		0
Storage Lanes	1		0	0		1	0		0	0		0
Taper Length (ft)	25			25			25			25		
Lane Util. Factor	1.00	1.00	1.00	1.00	1.00	1.00	0.91	0.91	0.91	1.00	1.00	1.00
Frt						0.850		0.981				
Flt Protected	0.950							0.995				
Satd. Flow (prot)	1752	1845	0	0	1900	1369	0	4964	0	0	0	0
Flt Permitted	0.337							0.995				
Satd. Flow (perm)	622	1845	0	0	1900	1369	0	4964	0	0	0	0
Right Turn on Red			Yes			Yes			Yes			Yes
Satd. Flow (RTOR)						59		23				
Link Speed (mph)		30			30			30			30	
Link Distance (ft)		219			1072			519			495	
Travel Time (s)		5.0			24.4			11.8			11.3	
Peak Hour Factor	0.92	0.90	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Heavy Vehicles (%)	3%	3%	0%	0%	0%	18%	2%	2%	2%	0%	0%	0%
Shared Lane Traffic (%)												
Lane Group Flow (vph)	97	186	0	0	214	25	0	784	0	0	0	0
Turn Type	pm+pt	NA			NA	Perm	Perm	NA				
Protected Phases	7	4			8			2				
Permitted Phases	4					8	2					
Detector Phase	7	4			8	8	2	2				
Switch Phase												
Minimum Initial (s)	3.0	8.0			8.0	8.0	15.0	15.0				
Minimum Split (s)	9.5	22.5			22.5	22.5	22.5	22.5				
Total Split (s)	13.0	78.0			65.0	65.0	42.0	42.0				
Total Split (%)	10.8%	65.0%			54.2%	54.2%	35.0%	35.0%				
Yellow Time (s)	3.5	4.0			4.0	4.0	4.0	4.0				
All-Red Time (s)	0.0	2.0			2.0	2.0	2.0	2.0				
Lost Time Adjust (s)	0.0	0.0			0.0	0.0		0.0				
Total Lost Time (s)	3.5	6.0			6.0	6.0		6.0				
Lead/Lag	Lead				Lag	Lag						
Lead-Lag Optimize?	Yes				Yes	Yes						
Recall Mode	None	None			None	None	C-Min	C-Min				
Act Effct Green (s)	36.4	33.9			20.2	20.2		74.1				
Actuated g/C Ratio	0.30	0.28			0.17	0.17		0.62				
v/c Ratio	0.34	0.36			0.67	0.09		0.25				
Control Delay	33.4	35.5			56.6	0.9		11.0				
Queue Delay	0.0	0.0			0.0	0.0		0.0				
Total Delay	33.4	35.5			56.6	0.9		11.0				
LOS	С	D			E	А		В				
Approach Delay		34.8			50.7			11.0				
Approach LOS		С			D			В				
Queue Length 50th (ft)	74	144			157	0		93				
Queue Length 95th (ft)	127	216			224	2		130				

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Lanes, Volumes, Timings 2: Lee Street & Thacker Street

Lane Group

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EBL

EBT

						06/0	8/2023
←	*	•	1	*	1	ŧ	~
WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
992			439			415	

Internal Link Dist (ft)		139		992		439	415
Turn Bay Length (ft)	25						
Base Capacity (vph)	288	1107		934	703	3075	
Starvation Cap Reductn	0	0		0	0	0	
Spillback Cap Reductn	0	0		0	0	0	
Storage Cap Reductn	0	0		0	0	0	
Reduced v/c Ratio	0.34	0.17		0.23	0.04	0.25	
Intersection Summary							
Area Type:	Other						
Cycle Length: 120							
Actuated Cycle Length: 12	20						
Offset: 53 (44%), Referen	ced to phase	2:NBTL, S	art of Green				
Natural Cycle: 55							
Control Type: Actuated-Co	oordinated						
Maximum v/c Ratio: 0.67							
Intersection Signal Delay:	23.4			Intersection	LOS: C		
Intersection Capacity Utiliz	zation 42.9%			ICU Level of	Service A	ł	
Analysis Period (min) 15							

€

WBL

EBR

Splits and Phases: 2: Lee Street & Thacker Street

Ø2 (R)	<i>▲</i> _{Ø4}
42 s	78 s
	▲ Ø7 Ø8
	13 s 65 s

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Int Delay, s/veh	0.6						
Movement	WBL	WBR	NBT	NBR	SBL	SBT	
Lane Configurations	٦					-4↑	•
Traffic Vol, veh/h	38	0	0	0	15	628	
Future Vol, veh/h	38	0	0	0	15	628	i
Conflicting Peds, #/hr	0	0	0	0	0	0	1
Sign Control	Stop	Stop	Free	Free	Free	Free	:
RT Channelized	-	None	-	None	-	None	•
Storage Length	0	-	-	-	-	-	
Veh in Median Storage	,# 0	-	0	-	-	0	1
Grade, %	0	-	0	-	-	0	1
Peak Hour Factor	94	94	94	94	94	94	
Heavy Vehicles, %	0	0	0	0	15	1	
Mvmt Flow	40	0	0	0	16	668	

Major/Minor	Minor1		Major2		
Conflicting Flow All	366	-	0	0	
Stage 1	0	-	-	-	
Stage 2	366	-	-	-	
Critical Hdwy	6.8	-	4.4	-	
Critical Hdwy Stg 1	-	-	-	-	
Critical Hdwy Stg 2	5.8	-	-	-	
Follow-up Hdwy	3.5	-	2.35	-	
Pot Cap-1 Maneuver	612	0	-	-	
Stage 1	-	0	-	-	
Stage 2	678	0	-	-	
Platoon blocked, %				-	
Mov Cap-1 Maneuver	612	-	-	-	
Mov Cap-2 Maneuver	612	-	-	-	
Stage 1	-	-	-	-	
Stage 2	678	-	-	-	

Approach	WB	SB	
HCM Control Delay, s	11.3		
HCM LOS	В		

Minor Lane/Major Mvmt	WBLn1	SBL	SBT
Capacity (veh/h)	612	-	-
HCM Lane V/C Ratio	0.066	-	-
HCM Control Delay (s)	11.3	-	-
HCM Lane LOS	В	-	-
HCM 95th %tile Q(veh)	0.2	-	-

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06/07/20	23
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Intersection						
Int Delay, s/veh	0.3					
Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations		1			_ ≜ î≽	
Traffic Vol, veh/h	0	18	0	0	650	14
Future Vol, veh/h	0	18	0	0	650	14
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	-	0	-	-	-	-
Veh in Median Storage	, # 0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	85	85	85	85	85	85
Heavy Vehicles, %	0	6	0	0	2	0
Mvmt Flow	0	21	0	0	765	16

Major/Minor	Minor2		Major2		
Conflicting Flow All	-	391	-	0	
Stage 1	-	-	-	-	
Stage 2	-	-	-	-	
Critical Hdwy	-	7.02	-	-	
Critical Hdwy Stg 1	-	-	-	-	
Critical Hdwy Stg 2	-	-	-	-	
Follow-up Hdwy	-	3.36	-	-	
Pot Cap-1 Maneuver		597	-	-	
Stage 1	0	-	-	-	
Stage 2	0	-	-	-	
Platoon blocked, %			-	-	
Mov Cap-1 Maneuve		597	-	-	
Mov Cap-2 Maneuve	r -	-	-	-	
Stage 1	-	-	-	-	
Stage 2	-	-	-	-	
Approach	EB		SB		
HCM Control Delay,	s 11.3		0		
HCM LOS	В				

Minor Lane/Major Mvmt	EBLn1	SBT	SBR	
Capacity (veh/h)	597	-	-	
HCM Lane V/C Ratio	0.035	-	-	
HCM Control Delay (s)	11.3	-	-	
HCM Lane LOS	В	-	-	
HCM 95th %tile Q(veh)	0.1	-	-	

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Intersection

Int Delay, s/veh

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR	
Lane Configurations		्र			ef 👘			đ þ					
Traffic Vol, veh/h	4	7	0	0	10	2	14	675	22	0	0	0	
Future Vol, veh/h	4	7	0	0	10	2	14	675	22	0	0	0	
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0	
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free	Free	Free	Free	
RT Channelized	-	-	None										
Storage Length	-	-	-	-	-	-	-	-	-	-	-	-	
Veh in Median Storage,	# -	0	-	-	0	-	-	0	-	-	0	-	
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-	
Peak Hour Factor	90	90	90	90	90	90	90	90	90	90	90	90	
Heavy Vehicles, %	0	0	0	0	0	0	0	2	0	0	0	0	
Mvmt Flow	4	8	0	0	11	2	16	750	24	0	0	0	

Major/Minor	Minor2		Mi	nor1		N	lajor1		
Conflicting Flow All	413	806	-	-	794	387	0	0	0
Stage 1	0	0	-	-	794	-	-	-	-
Stage 2	413	806	-	-	0	-	-	-	-
Critical Hdwy	7.5	6.5	-	-	6.5	6.9	4.1	-	-
Critical Hdwy Stg 1	-	-	-	-	5.5	-	-	-	-
Critical Hdwy Stg 2	6.5	5.5	-	-	-	-	-	-	-
Follow-up Hdwy	3.5	4	-	-	4	3.3	2.2	-	-
Pot Cap-1 Maneuver	528	318	0	0	323	617	-	-	-
Stage 1	-	-	0	0	403	-	-	-	-
Stage 2	592	398	0	0	-	-	-	-	-
Platoon blocked, %								-	-
Mov Cap-1 Maneuver	512	318	-	-	323	617	-	-	-
Mov Cap-2 Maneuver	· 512	318	-	-	323	-	-	-	-
Stage 1	-	-	-	-	403	-	-	-	-
Stage 2	574	398	-	-	-	-	-	-	-
Annroach	FR			W/R			NB		

Approach	EB	WB	NB	
HCM Control Delay, s	15.1	15.7		
HCM LOS	С	С		

Minor Lane/Major Mvmt	NBL	NBT	NBR EBLn1	WBLn1
Capacity (veh/h)	-	-	- 369	351
HCM Lane V/C Ratio	-	-	- 0.033	0.038
HCM Control Delay (s)	-	-	- 15.1	15.7
HCM Lane LOS	-	-	- C	С
HCM 95th %tile Q(veh)	-	-	- 0.1	0.1

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Int Delay, s/veh	0.4						
Movement	EBL	EBT	WBT	WBR	SBL	SBR	
Lane Configurations		र्भ	et -		Y		
Traffic Vol, veh/h	14	260	345	9	8	6	
Future Vol, veh/h	14	260	345	9	8	6	
Conflicting Peds, #/hr	0	0	0	0	0	0	
Sign Control	Free	Free	Free	Free	Stop	Stop	
RT Channelized	-	None	-	None	-	None	
Storage Length	-	-	-	-	0	-	
Veh in Median Storage,	# -	0	0	-	0	-	
Grade, %	-	0	0	-	0	-	
Peak Hour Factor	93	93	93	93	93	93	
Heavy Vehicles, %	7	1	2	0	0	17	
Mvmt Flow	15	280	371	10	9	6	

Major/Minor	Major1	Ν	Najor2	Ν	Ainor2	
Conflicting Flow All	381	0	-	0	686	376
Stage 1	-	-	-	-	376	-
Stage 2	-	-	-	-	310	-
Critical Hdwy	4.17	-	-	-	6.4	6.37
Critical Hdwy Stg 1	-	-	-	-	5.4	-
Critical Hdwy Stg 2	-	-	-	-	5.4	-
Follow-up Hdwy	2.263	-	-	-		3.453
Pot Cap-1 Maneuver	1151	-	-	-	416	638
Stage 1	-	-	-	-	699	-
Stage 2	-	-	-	-	748	-
Platoon blocked, %		-	-	-		
Mov Cap-1 Maneuver		-	-	-	410	638
Mov Cap-2 Maneuver	r -	-	-	-	410	-
Stage 1	-	-	-	-	689	-
Stage 2	-	-	-	-	748	-
Approach	EB		WB		SB	
HCM Control Delay, s	s 0.4		0		12.7	
HCM LOS					В	
Minor Lane/Major Mv	mt	EBL	EBT	WBT	WBR S	SBLn1
Capacity (veh/h)		1151	-	-	-	484
HCM Lane V/C Ratio		0.013	-	-	-	0.031
HCM Control Delay (s	s)	8.2	0	-	-	12.7
HCM Lane LOS		А	А	-	-	В
HCM 95th %tile Q(ve	h)	0	-	-	-	0.1

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Int Delay, s/veh	1.1					
Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations		÷	et –		Y	
Traffic Vol, veh/h	30	252	339	13	15	22
Future Vol, veh/h	30	252	339	13	15	22
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	0	-
Veh in Median Storage,	# -	0	0	-	0	-
Grade, %	-	0	0	-	0	-
Peak Hour Factor	91	91	91	91	91	91
Heavy Vehicles, %	7	1	3	0	0	5
Mvmt Flow	33	277	373	14	16	24

Major/Minor	Major1	١٧	1ajor2	ľ	Minor2		
Conflicting Flow All	387	0	-	0	723	380)
Stage 1	-	-	-	-	380	-	
Stage 2	-	-	-	-	343	-	
Critical Hdwy	4.17	-	-	-	6.4	6.25	
Critical Hdwy Stg 1	-	-	-	-	5.4	-	
Critical Hdwy Stg 2	-	-	-	-	5.4	-	
Follow-up Hdwy	2.263	-	-	-	3.5	3.345	
Pot Cap-1 Maneuver	1145	-	-	-		660)
Stage 1	-	-	-	-	696	-	
Stage 2	-	-	-	-	723	-	
Platoon blocked, %		-	-	-			
Mov Cap-1 Maneuve		-	-	-	383	660	
Mov Cap-2 Maneuve	r -	-	-	-	383	-	
Stage 1	-	-	-	-	672	-	
Stage 2	-	-	-	-	723	-	
Approach	EB		WB		SB		
HCM Control Delay, s	s 0.9		0		12.7		
HCM LOS					В		
Minor Lane/Major Mv	rmt	EBL	EBT	WBT	WBR	SBI n1	
Capacity (veh/h)		1145		-	-	510	_
HCM Lane V/C Ratio		0.029	-	-	-	0.08	
HCM Control Delay (8.2	0	-	-	12.7	
HCM Lane LOS		A	Ă	-	-	B	
HCM 95th %tile Q(ve	h)	0.1			_	0.3	

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Intersection Int Delay, s/veh 0.5 EBT EBR WBL WBT NBR Movement NBL Lane Configurations Þ đ ¥ 261 9 9 351 4 21 Traffic Vol, veh/h Future Vol, veh/h 261 9 9 351 4 21 Conflicting Peds, #/hr 0 0 0 0 0 0 Sign Control Stop Stop Free Free Free Free RT Channelized None None None ---Storage Length 0 --_ --Veh in Median Storage, # 0 0 0 ---Grade, % 0 0 0 ---Peak Hour Factor 90 90 90 90 90 90 Heavy Vehicles, % 2 0 0 3 0 0 Mvmt Flow 290 10 10 390 4 23

Major/Minor	Major1	Ν	Aajor2	ſ	Minor1			
Conflicting Flow All	0	0	300	0	705	295		
Stage 1	-	-	-	-	295	-		
Stage 2	-	-	-	-	410	-		
Critical Hdwy	-	-	4.1	-	6.4	6.2		
Critical Hdwy Stg 1	-	-	-	-	5.4	-		
Critical Hdwy Stg 2	-	-	-	-	5.4	-		
Follow-up Hdwy	-	-	2.2	-	3.5	3.3		
Pot Cap-1 Maneuver	-	-	1273	-	406	749		
Stage 1	-	-	-	-	760	-		
Stage 2	-	-	-	-	674	-		
Platoon blocked, %	-	-		-				
Mov Cap-1 Maneuver		-	1273	-	402	749		
Mov Cap-2 Maneuver	-	-	-	-	402	-		
Stage 1	-	-	-	-	760	-		
Stage 2	-	-	-	-	667	-		
Approach	EB		WB		NB			
HCM Control Delay, s	0		0.2		10.7			_
HCM LOS					В			
Minor Lane/Major Mvr	nt	NBLn1	EBT	EBR	WBL	WBT		
Capacity (veh/h)		658	-	-	1273	-		
HCM Lane V/C Ratio		0.042	-	-	800.0	-		
HCM Control Delay (s)	10.7	-	-	7.8	0		
HCM Lane LOS		В	-	-	А	А		
HCM 95th %tile Q(veh	ר)	0.1	-	-	0	-		

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Intersection						
Int Delay, s/veh	0.2					
Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations		- स ी	4		۰¥	
Traffic Vol, veh/h	4	268	361	7	4	2
Future Vol, veh/h	4	268	361	7	4	2
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	0	-
Veh in Median Storage	e,# -	0	0	-	0	-
Grade, %	-	0	0	-	0	-
Peak Hour Factor	87	87	87	87	87	87
Heavy Vehicles, %	0	1	2	0	0	0
Mvmt Flow	5	308	415	8	5	2

Major/Minor	Major1	N	/lajor2	N	Minor2	
Conflicting Flow All	423	0	-	0	737	419
Stage 1	-	-	-	-	419	-
Stage 2	-	-	-	-	318	-
Critical Hdwy	4.1	-	-	-	6.4	6.2
Critical Hdwy Stg 1	-	-	-	-	5.4	-
Critical Hdwy Stg 2	-	-	-	-	5.4	-
Follow-up Hdwy	2.2	-	-	-	3.5	3.3
Pot Cap-1 Maneuver	r 1147	-	-	-	389	638
Stage 1	-	-	-	-	668	-
Stage 2	-	-	-	-	742	-
Platoon blocked, %		-	-	-		
Mov Cap-1 Maneuve		-	-	-	387	638
Mov Cap-2 Maneuve	er -	-	-	-	387	-
Stage 1	-	-	-	-	665	-
Stage 2	-	-	-	-	742	-
Approach	EB		WB		SB	
HCM Control Delay,	s 0.1		0		13.2	
HCM LOS					В	
Minor Lane/Major M	vmt	EBL	EBT	WBT	WBR S	SBLn1
Capacity (veh/h)		1147	-	-	-	445
HCM Lane V/C Ratio)	0.004	-	-	-	0.015
HCM Control Delay ((S)	8.2	0	-	-	13.2
HCM Lane LOS		А	А	-	-	В
HCM 95th %tile Q(ve	eh)	0	-	-	-	0

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Intersection

Int Delay, s/veh

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR	
Lane Configurations		4			4			4			4		
Traffic Vol, veh/h	22	252	10	11	254	11	4	6	4	7	6	21	
Future Vol, veh/h	22	252	10	11	254	11	4	6	4	7	6	21	
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0	
Sign Control	Free	Free	Free	Free	Free	Free	Stop	Stop	Stop	Stop	Stop	Stop	
RT Channelized	-	-	None										
Storage Length	-	-	-	-	-	-	-	-	-	-	-	-	
Veh in Median Storage,	,# -	0	-	-	0	-	-	0	-	-	0	-	
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-	
Peak Hour Factor	87	87	87	87	87	87	87	87	87	87	87	87	
Heavy Vehicles, %	0	1	0	0	2	0	0	0	0	0	0	0	
Mvmt Flow	25	290	11	13	292	13	5	7	5	8	7	24	

Major/Minor Major1 Major2 Minor1 Minor2 Conflicting Flow All 305 0 0 301 0 0 686 677 296 677 676 299 Stage 1 - - - - 346 346 - 325 325 - Stage 2 - - - - 340 331 - 352 351 - Critical Hdwy 4.1 - - 7.1 6.5 6.2 7.1 6.5 6.2 Critical Hdwy Stg 1 - - - - 6.1 5.5 - 6.1 5.5 -	0 686 677 2 - 346 346		0	-				
Stage 1 - - - - 346 346 - 325 325 - Stage 2 - - - - 340 331 - 325 325 - Critical Hdwy 4.1 - - 7.1 6.5 6.2 7.1 6.5 6.2			0	301	0	0		
Critical Hdwy 4.1 4.1 7.1 6.5 6.2 7.1 6.5 6.2	- 340 331	- 346	-	-	-	-	-	
		- 340	-	-	-	-	-	Stage 2
Critical Hdwy Sta 1	- 7.1 6.5	- 7.1	-	4.1	-	-	4.1	Critical Hdwy
0.1 5.5 0.1 5.5	- 6.1 5.5	- 6.1	-	-	-	-	-	Critical Hdwy Stg 1
Critical Hdwy Stg 2 6.1 5.5 - 6.1 5.5 -	- 6.1 5.5	- 6.1	-	-	-	-	-	Critical Hdwy Stg 2
Follow-up Hdwy 2.2 2.2 3.5 4 3.3 3.5 4 3.3	- 3.5 4	- 3.5	-	2.2	-	-	2.2	
Pot Cap-1 Maneuver 1267 1272 364 377 748 369 378 745		- 364	-	1272	-	-	1267	Pot Cap-1 Maneuver
Stage 1 674 639 - 692 653 -			-	-	-	-	-	Stage 1
Stage 2 679 649 - 669 636 -	- 679 649	- 679	-	-	-	-	-	
Platoon blocked, %		-	-		-	-		
Mov Cap-1 Maneuver 1267 1272 338 363 748 352 364 745			-	1272	-	-	1267	
Mov Cap-2 Maneuver		- 338	-	-	-	-	-	Mov Cap-2 Maneuver
Stage 1 658 624 - 675 645 -	- 658 624	- 658	-	-	-	-	-	Stage 1
Stage 2 642 641 - 642 621 -	- 642 641	- 642	-	-	-	-	-	Stage 2
Approach EB WB NB SB	NB	NB		WB			EB	Approach
HCM Control Delay, s 0.6 0.3 14 12.4	14	14		0.3			0.6	HCM Control Delay, s
HCM LOS B B	В	В						
Minor Lane/Major Mvmt NBLn1 EBL EBT EBR WBL WBT WBR SBLn1	NBL WBT WBR SBI	WBL WBT	EBR V	EBT	EBL	VBLn1	t N	Minor Lane/Major Mvm
Capacity (veh/h) 415 1267 1272 527	272 5	1272 -	- 1	-	1267	415		Capacity (veh/h)
HCM Lane V/C Ratio 0.039 0.02 0.01 0.074	0.01 0.0	0.01 -	- (-	0.02	0.039		HCM Lane V/C Ratio
HCM Control Delay (s) 14 7.9 0 - 7.9 0 - 12.4	7.9 0 - 1	7.9 0	-	0	7.9	14		HCM Control Delay (s)
HCM Lane LOS B A A - A A - B	A A -	A A	-	А	А	В		HCM Lane LOS
HCM 95th %tile Q(veh) 0.1 0.1 0 0.2	0	0 -	-	-	0.1	0.1		HCM 95th %tile Q(veh)

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Intersection

Int Delay, s/veh

,						
Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations		ب	el 👘		Y	
Traffic Vol, veh/h	4	9	21	5	3	24
Future Vol, veh/h	4	9	21	5	3	24
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	0	-
Veh in Median Storage,	,# -	0	0	-	0	-
Grade, %	-	0	0	-	0	-
Peak Hour Factor	80	80	80	80	80	80
Heavy Vehicles, %	0	0	0	0	0	0
Mvmt Flow	5	11	26	6	4	30

Major/Minor	Major1	Ν	/lajor2		Minor2	
Conflicting Flow All	32	0	-	0	50	29
Stage 1	-	-	-	-	29	-
Stage 2	-	-	-	-	21	-
Critical Hdwy	4.1	-	-	-	6.4	6.2
Critical Hdwy Stg 1	-	-	-	-	5.4	-
Critical Hdwy Stg 2	-	-	-	-	5.4	-
Follow-up Hdwy	2.2	-	-	-	3.5	3.3
Pot Cap-1 Maneuver	1593	-	-	-	964	1052
Stage 1	-	-	-	-	999	-
Stage 2	-	-	-	-	1007	-
Platoon blocked, %		-	-	-		
Mov Cap-1 Maneuver	1593	-	-	-	961	1052
Mov Cap-2 Maneuver	-	-	-	-	961	-
Stage 1	-	-	-	-	996	-
Stage 2	-	-	-	-	1007	-
Approach	EB		WB		SB	
HCM Control Delay, s	2.2		0		8.6	
HCM LOS					А	
Minor Lane/Major Mvm	nt	EBL	EBT	WBT	WBR S	SBLn1
Capacity (veh/h)		1593	-	-	-	1041
HCM Lane V/C Ratio		0.003	-	-	-	0.032
HCM Control Delay (s))	7.3	0	-	-	8.6
HCM Lane LOS		А	А	-	-	А
HCM 95th %tile Q(veh)	0	-	-	-	0.1

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Intersection Int Delay, s/veh 0.1 EBL EBR NBL SBR Movement NBT SBT **†₁** 630 Lane Configurations ۴ 7 12 Traffic Vol, veh/h 0 0 0 Future Vol, veh/h 0 7 0 0 630 12 Conflicting Peds, #/hr 0 0 0 0 0 0 Sign Control Stop Stop Free Free Free Free RT Channelized None None -None --Storage Length -0 _ ---Veh in Median Storage, # 0 0 0 ---Grade, % 0 0 0 ---Peak Hour Factor 95 95 95 95 95 95 Heavy Vehicles, % 0 0 0 0 0 0 Mvmt Flow 0 7 0 0 663 13

Major/Minor I	Minor2			Μ	ajor2	
Conflicting Flow All	-	338			-	0
Stage 1	-	-			-	-
Stage 2	-	-			-	-
Critical Hdwy	-	6.9			-	-
Critical Hdwy Stg 1	-	-			-	-
Critical Hdwy Stg 2	-	-			-	-
Follow-up Hdwy	-	3.3			-	-
Pot Cap-1 Maneuver	0	664			-	-
Stage 1	0	-			-	-
Stage 2	0	-			-	-
Platoon blocked, %					-	-
Mov Cap-1 Maneuver	-	664			-	-
Mov Cap-2 Maneuver	-	-			-	-
Stage 1	-	-			-	-
Stage 2	-	-			-	-
Approach	EB				SB	
HCM Control Delay, s	10.5				0	
HCM LOS	B				0	
	U					
Minor Lane/Major Mvm	nt I	EBLn1	SBT	SBR		
Capacity (veh/h)		664	-	-		
HCM Lane V/C Ratio		0.011	-	-		
HCM Control Delay (s)		10.5	-	-		
HCM Lane LOS		В	-	-		

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HCM 95th %tile Q(veh)

0

Int Delay, s/veh	0.4					
Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations	4			्र	۰¥	
Traffic Vol, veh/h	264	5	12	351	3	9
Future Vol, veh/h	264	5	12	351	3	9
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	0	-
Veh in Median Storage	,# 0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	95	95	95	95	95	95
Heavy Vehicles, %	1	0	0	2	0	0
Mvmt Flow	278	5	13	369	3	9

Major/Minor N	/lajor1	Ν	/lajor2	N	/linor1	
Conflicting Flow All	0	0	283	0	676	281
Stage 1	-	-	-	-	281	-
Stage 2	-	-	-	-	395	-
Critical Hdwy	-	-	4.1	-	6.4	6.2
Critical Hdwy Stg 1	-	-	-	-	5.4	-
Critical Hdwy Stg 2	-	-	-	-	5.4	-
Follow-up Hdwy	-	-	2.2	-	3.5	3.3
Pot Cap-1 Maneuver	-	-	1291	-	422	763
Stage 1	-	-	-	-	771	-
Stage 2	-	-	-	-	685	-
Platoon blocked, %	-	-		-		
Mov Cap-1 Maneuver	-	-	1291	-	417	763
Mov Cap-2 Maneuver	-	-	-	-	417	-
Stage 1	-	-	-	-	771	-
Stage 2	-	-	-	-	676	-
Approach	EB		WB		NB	
HCM Control Delay, s	0		0.3		10.8	
HCM LOS					В	
Minor Long/Major Mumi	L N		EBT	EBR		
Minor Lane/Major Mvm	L I	VBLn1	EDI		WBL	WBT
Capacity (veh/h)		632	-	-	1291	-
HCM Lane V/C Ratio		0.02	-	-	0.01	-
HCM Control Delay (s) HCM Lane LOS		10.8	-	-	7.8	0
		B	-	-	A	А
HCM 95th %tile Q(veh)		0.1	-	-	0	-

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Int Delay, s/veh	0.7					
Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations		÷	et -		Y	
Traffic Vol, veh/h	2	13	35	5	0	3
Future Vol, veh/h	2	13	35	5	0	3
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	0	-
Veh in Median Storage,	# -	0	0	-	0	-
Grade, %	-	0	0	-	0	-
Peak Hour Factor	95	95	95	95	95	95
Heavy Vehicles, %	0	0	0	0	0	0
Mvmt Flow	2	14	37	5	0	3

Major/Minor	Vajor1	Ν	/lajor2	ſ	Minor2	
Conflicting Flow All	42	0	-	0	58	40
Stage 1	-	-	-	-	40	-
Stage 2	-	-	-	-	18	-
Critical Hdwy	4.1	-	-	-	6.4	6.2
Critical Hdwy Stg 1	-	-	-	-	5.4	-
Critical Hdwy Stg 2	-	-	-	-	5.4	-
Follow-up Hdwy	2.2	-	-	-	3.5	3.3
Pot Cap-1 Maneuver	1580	-	-	-	954	1037
Stage 1	-	-	-	-	988	-
Stage 2	-	-	-	-	1010	-
Platoon blocked, %		-	-	-		
Mov Cap-1 Maneuver	1580	-	-	-	953	1037
Mov Cap-2 Maneuver	-	-	-	-	953	-
Stage 1	-	-	-	-	987	-
Stage 2	-	-	-	-	1010	-
Approach	EB		WB		SB	
HCM Control Delay, s	1		0		8.5	
HCM LOS					А	
Minor Lane/Major Mvm	nt	EBL	EBT	WBT	WBR S	SBLn1
Capacity (veh/h)		1580	-	-	-	1037
HCM Lane V/C Ratio		0.001	-	-	-	0.003
HCM Control Delay (s)		7.3	0	-	-	8.5
HCM Lane LOS		А	А	-	-	А
HCM 95th %tile Q(veh))	0	-	-	-	0

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Intersection

Int Delay, s/veh

5.						
Movement	NBL	NBT	SBT	SBR	SEL	SER
Lane Configurations		ب	et P		Y	
Traffic Vol, veh/h	0	5	24	7	0	5
Future Vol, veh/h	0	5	24	7	0	5
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	0	-
Veh in Median Storage,	,# -	0	0	-	0	-
Grade, %	-	0	0	-	0	-
Peak Hour Factor	95	95	95	95	95	95
Heavy Vehicles, %	0	0	0	0	0	0
Mvmt Flow	0	5	25	7	0	5

Major/Minor	Major1	Ν	/lajor2	Ν	/linor2	
Conflicting Flow All	32	0	-	0	34	29
Stage 1	-	-	-	-	29	-
Stage 2	-	-	-	-	5	-
Critical Hdwy	4.1	-	-	-	6.4	6.2
Critical Hdwy Stg 1	-	-	-	-	5.4	-
Critical Hdwy Stg 2	-	-	-	-	5.4	-
Follow-up Hdwy	2.2	-	-	-	3.5	3.3
Pot Cap-1 Maneuver	1593	-	-	-	984	1052
Stage 1	-	-	-	-	999	-
Stage 2	-	-	-	-	1023	-
Platoon blocked, %		-	-	-		
Mov Cap-1 Maneuver		-	-	-	984	1052
Mov Cap-2 Maneuver	-	-	-	-	984	-
Stage 1	-	-	-	-	999	-
Stage 2	-	-	-	-	1023	-
Approach	NB		SB		SE	
HCM Control Delay, s	0		0		8.4	
HCM LOS					А	
Minor Lane/Major Mvr	nt	NBL	NBT S	ELn1	SBT	SBR
Capacity (veh/h)		1593	-	1052	-	-
HCM Lane V/C Ratio		-	-	0.005	-	-
HCM Control Delay (s)	0	-	8.4	-	-
HCM Lane LOS		А	-	А	-	-
HCM 95th %tile Q(veh	ר)	0	-	0	-	-

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