BUFFALO AND ERIE COUNTY
Botanical Gardens

Erie County
Department of Environment & Planning
Attn: Mark Rountree, Chief Planner
95 Franklin Street, 10th Floor
Buffalo, New York 14202

September 27, 2024

Re: Environmental Review of the Buffalo and Erie County Botanical Gardens
Proposed Expansion pursuant to State Environmental Quality Review act
and National Environmental Policy Act

Dear Mr. Rountree:

The Buffalo and Erie County Botanical Gardens Society, Inc. (the "**Society**") proposes an expansion of the facilities and horticultural resources currently managed by the Society at the storied Lord & Burnham conservatory and botanical gardens site located at 2655 South Park Avenue (the "**Site**" or "**Gardens**"). The Society proposes the renovation of approximately 14,500 sq. ft. of existing interior space in the grow range building and the new construction of an approximately 16,500 sq. ft. building addition that will house event spaces, classrooms, an expanded retail gift shop and reception area, and accessible amenities for the County's residents and visitors, all as set forth more fully below (the "**Expansion**" or "**Project**"). The new building addition is strategically located on previously disturbed land situated behind the famed glass conservatory and is appropriately scaled to preserve the iconic front view of the Site as visitors enter from South Park Avenue.

Erie County (the "**County**") is the Site owner and the Society has successfully managed the Site pursuant to an Asset Transfer and Management Agreement, dated August 16, 2004, which was entered into by and between the Society and the County as a public-private partnership to facilitate operation of the Gardens for the benefit of the County's residents for a 25-year term (the "**Management Agreement**"). On June 18, 2008 the Society and the County executed an Amendment of Asset Transfer and Management Agreement (the "**Amendment**") to incorporate into the Management Agreement certain portions of South Park that are immediately adjacent to the Site and which are subject to a Cultural and Recreational Easement, dated May 2, 2008 (the "**Easement**"), as granted

by the City of Buffalo (the "**City**") to the County. To facilitate the Project, the County and Society will execute a further amendment to the Management Agreement to authorize construction of the Expansion and allocate maintenance obligations between the parties upon completion of construction.

This Project description and attached materials are provided by the Society to facilitate the County Legislature's environmental review of the Expansion pursuant to the State Environmental Quality Review Act ("**SEQRA**") and the National Environmental Policy Act ("**NEPA**"). An electronic copy of this letter and the following exhibits are available for review at the Erie County Department of Planning and Development's website: [1]

Exhibit A:	Full Environmental Assessment Form
Exhibit B:	Overall Site Plan
Exhibit C:	Project Renderings
Exhibit D:	Project Elevations
Exhibit E:	Proposed Coastal Assessment Form
Exhibit F:	List of Potentially Interested & Involved Agencies
Exhibit G:	Traffic Study by Passero Associates
Exhibit H:	Buffalo Olmstead Parks Conservancy Letter of Support

[1] https://www3.erie.gov/environment/planning-and-development

PROJECT DETAILS

Project Sponsor:	Buffalo and Erie County Botanical Gardens Society, Inc. on behalf of Erie County as Site owner
Attorney Contact:	Phillips Lytle LLP Attn: Kimberly Nason, Esq. One Canalside 125 Main Street Buffalo, New York 14203 (716) 504-5784 knason@phillipslytle.com
Project Location:	2655 South Park Avenue, Buffalo, NY 14220
Parcel ID:	SBL 142.05-1-1.2
City Zoning District:	D-OG Green

PROJECT DESCRIPTION

The Expansion proposes an interior renovation of approximately 14,500 sq. ft. of the existing grow range building on Site and the construction of an approximately 16,500 sq. ft. building addition with associated parking area, all as depicted in the site plans attached as **Exhibit B**. The Expansion has been carefully designed to avoid encroachment on the Easement area and all features are appropriately screened from the adjoining South Park. *See* **Exhibit B**. The Society consulted with the Buffalo Olmstead Parks Conservancy ("**Conservancy**") throughout the design development

process and the Conservancy has offered its full support for the Expansion as proposed. *See* **Exhibit H.**

The Society has cultivated strong public interest in the Gardens and grown attendance numbers and community engagement with the Garden's world class indoor and outdoor collections by expanding tour offerings, hosting private special events, and developing educational programming to showcase horticultural wonders and generate revenue streams that will ensure long term financial sustainability for the Gardens. The Expansion will provide much needed additional space to accommodate that growing public interest with the addition of attractive visitor amenities such as a café and family restrooms and accessibility improvements, an expanded retail gift shop, indoor and outdoor classroom spaces, and climate-controlled special event spaces (for weddings, ceremonies, showers, retirement parties, etc.). The Expansion is consistent with the Buffalo Green Code's directives for the D-OG Green Zone, which is an area intended for civic greens and parks and cultural facilities with ancillary assembly, retail, and restaurant uses. *See* Buffalo Green Code Sections 4.9; 6.1; 11.3.[2]

The new building addition is designed to complement and showcase South Park's natural landscape and suit the historic surroundings. Please see **Exhibit C** for Project Renderings to depict views of the building addition's main entry with accessible drop-off area, views of the building addition's northwest side that will face South Park, and a view of the enhanced courtyard space that will be created between the building addition and conservancy building. See **Exhibit D** for detailed Project Elevations that depict the building addition's Site-appropriate scale. The principal footprint of the Expansion's building addition has been intentionally oriented on a portion of the Site

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[2].The Society acknowledges that the Site is within the City's limits and if the Gardens were not a facility open to the public, maintained for the public benefit, and owned by the County, the Site would typically be subject to the land use regulations in the Buffalo Green Code. Based on the County ownership of the Site, the public use of the Gardens, and the public benefit to be served by the Expansion, the Society and the County take the position that the Site is not regulated by the City's Green Code for purposes of the Expansion because government entities such as the County, are immune from local zoning controls where, as here, such entities are developing a public facility and the balance of public interests weighs in favor of immunity. *See* Matter of City of Rochester [County of Monroe], 72 N.Y.2d 338, 343 (1988).

that is developed with a service road between the conservatory and growing range building. That portion of the Site has been previously altered from the original Olmstead design, and the location and scale of the building addition ensures that the front view of the conservancy is fully protected as visitors enter the Site from South Park Avenue. The Conservancy has offered its support for the Expansion particularly because the "project is right sized to complement the historic conservancy and surrounding historic landscapes." *See* **Exhibit H**.

The Project will establish a new accessible entry plaza and drop-off area for vehicles at the northern portion of the Site near the existing parking area to welcome visitors through the new building addition's main entrance. *See* **Exhibit B**. The existing parking area with connections to Park Drive at the northern portion of the Site will remain with minor changes to accommodate vehicular flow to the new building addition's entry plaza and accessible drop-off area. That existing northern parking area will offer 64 total parking spaces. *See* **Exhibit B**. The Project also proposes the construction of a parking area at the southwest portion of the Site with 52 spaces primarily intended for employee parking and event parking that is essential to the Expansion. That new parking area will utilize an existing connection to Park Drive at the southwest portion of the Site. *See* **Exhibit B**. The Expansion's planting plan and landscaping details are in keeping with Olmstead's method of using heavily planted borders and the Project includes deciduous and evergreen vegetative plantings to provide useful buffering to screen the addition and associated parking area from South Park and Park Drive. *See* **Exhibit B**.

Limited site work must be completed to facilitate the Expansion, including: removal of tree stumps and bushes, asphalt pavement, grass and topsoil, concrete curbs, signage posts and bollards, as well as limited removal of approximately 14 trees on site (none of which are historic or of "specimen" varieties). Minor architectural demolition is required, including: limited removal of the west wall of House 4 at proposed connection to the new building addition, limited removal of portions of the brick grow range building to accommodate two new windows and corridor connections, and removal and replacement of a garage door on the north elevation of the grow range building.

In light of the conservancy's historic designations on the State and National Registers and the proximity to South Park, the Society is fully engaged in consultation with the State Historic Preservation Office ("**SHPO**") to ensure that the Expansion will not have any significant adverse impact to the historic Site and surrounding South Park. Representatives from the Society and SHPO met at the Site several times to discuss the proposed building footprint and parking design, and on August 9, 2024 the Society formally initiated its request for consultation through the Cultural Resource Information System ("**SHPO Consultation Request**"). SHPO has provided preliminary feedback on the Expansion design and the Society is committed to addressing SHPO's comments to ensure there is no potential for significant adverse impacts to the historic Site and South Park. Representatives from the Society and SHPO met most recently on September 19, 2024 to continue the consultation process for the Expansion and the Society is currently compiling further Project information in response to SHPO's requests.

As part of the Project, the Society is working closely with the City Department of Public Works ("**DPW**") to amend the traffic pattern on Park Drive to accommodate two-way traffic flow along an approximately 850 ft. segment of Park Drive that links the McKinley Parkway/South Park Avenue intersection to the newly proposed parking area at the southwest portion of the Site. *See* **Exhibit B**. Representatives from Erie County, the Society, and DPW met during August 2024 to discuss the proposed changes to traffic flow and associated design and signage requirements, and the parties are committed to working together to implement necessary amendments to Park Drive to facilitate the Expansion as proposed.[3]

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[3] The Society has engaged Passero Associates to prepare the materials necessary to complete the two-way roadway design, including proposed signage, pavement marking, and pedestrian/bicycle facilities. Passero completed a Traffic Impact Study, attached here as **Exhibit G**, which concluded that the proposed two-way traffic flow will not have a significant impact on operating conditions along Park Road and further that the Project will not result in any potentially significant adverse environmental impacts to traffic patterns in the area.

Project construction is expected to begin in February 2025 and be complete by December 2026. The Expansion will require a SWPPP and erosion control measures will be utilized throughout construction.[4]

The Gardens will remain open and operational during Project construction. The living plant collection will remain open to the public seven days per week from 10am to 4pm, with some seasonal experiences scheduled from 6pm to 9pm. The Society's retail, admissions, operations, and horticultural teams are and will be scheduled seven days a week 7am to 5pm, and the Society's main office staff typically works weekdays from 7am to 6pm. The Gardens will continue to host special events scheduled primarily for Thursdays through Sundays throughout the day and including occasional evening events to conclude at midnight. Upon completion of the Expansion, the Society will maintain those hours of operation and will have additional administrative and exhibition space, enhanced facilities for plant care and maintenance, and ample room and facilities to meet public demand for additional educational/classroom programming and special event spaces.

STATE ENVIRONMENTAL QUALITY REVIEW

The State Environmental Quality Review Act, found at Article 8 of the Environmental Conservation Law, together with the regulations at 6 NYCRR Part 617 ("**SEQRA**"), requires all local, regional and state government agencies to complete a detailed environmental review to determine whether the actions they directly undertake, fund, or approve may have a significant adverse impact on the environment.

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[4] The Expansion will be subject to design requirements for stormwater management in accordance with the State Pollutant Discharge Elimination System (SPDES) General Permit for Storm Water Discharges from Construction Activity (Permit No. GP-0-20-001). The Expansion will be considered a redevelopment project with an increase in impervious coverage (adding approximately 0.7 acre of impervious surface) and is subject to the "Redevelopment Activity" criteria from the technical guidelines of the SPDES General Permit as administered by the NYSDEC. In order to satisfy the SPDES water quality requirements the Project will incorporate Green Infrastructure practices that will consist of a series of bioretention gardens. The stormwater will be treated within the bioretention areas for water quality before being conveyed to the detention system.

Pursuant to the SEQRA regulations, the County Legislature is subject to SEQRA's requirements as it funds and undertakes the Expansion through its public-private partnership with the Society pursuant to the Management Agreement and forthcoming amendment.

As indicated in the Full Environmental Assessment Form ("**FEAF**") attached as **Exhibit A**, the Expansion will disturb approximately 3.7 acres, and is therefore a Type I action pursuant to SEQR. *See* 6 NYCRR 617.4(b)(9) and (10) (requiring Type I classification for disturbance of more than 2.5 acres at a site that is on or substantially contiguous to a listed resource on the National or State Register of Historic Places, or where substantially contiguous to publicly owned or operated parkland).

Based on the information provided in the FEAF, the Expansion may require discretionary approvals, funding, and/or consultation with a number of State and local agencies, in addition to the County, including: New York State Department of State, New York State Department of Environmental Conservation, Empire State Development, SHPO, the City of Buffalo DPW, and Buffalo Sewer Authority. The Site is within the State's Coastal Area Boundary and accordingly the Expansion will also require the County to issue a coastal consistency determination. A Proposed Coastal Assessment Form has been prepared by the Society and is attached as **Exhibit E**. The County Legislature will circulate a notice of intent to act as lead agency to those potentially interested or involved agencies identified in the attached **Exhibit F**.

NATIONAL ENVIRONMENTAL POLICY ACT

The U.S. Department of Housing & Urban Development ("**HUD**") awarded the Society a Community Project Funding ("**CPF**") grant to assist in the development of the Expansion. Accordingly, in addition to SEQRA, the Expansion also requires compliance with the National Environmental Policy Review Act. *See* 42 U.S.C. §§ 4331-4337 and implementing regulations at 40 CFR Part 1500 ("**NEPA**"). NEPA requires review of environmental conditions like SEQRA, but requires compliance with HUD's specific process for conducting environmental reviews. *See* 24 CFR Part 58. The County Legislature is a unit of general local government that is authorized to carry out NEPA

review responsibilities. *See* 24 CFR Part 58. Accordingly, the County Legislature intends to act as Responsible Entity ("**RE**") to complete the NEPA review for the Project contemporaneously with the County's coordinated review of the Project pursuant to SEQRA.

CONCLUSION

The Society looks forward to working with the County and all other interested and involved agencies to complete the environmental review process pursuant to SEQRA and NEPA. We respectfully request that the County Legislature promptly distribute the Project description and materials attached here along with a notice of the Legislature's intent to act as Lead Agency for a coordinated review of the Project pursuant to SEQRA.

The Society intends to host an information session at the Gardens during October 2024 to provide an opportunity for the public to review and provide feedback on the Expansion as proposed. The Society will provide further details regarding the Information Session once a date is confirmed. Please do not hesitate to reach out if there is any additional information the Society can provide in support of the Expansion at this time.

Respectfully,

Buffalo and Erie County Botanical Gardens Society, Inc.

By: 

Erin Grajek, Interim President/CEO

cc: Daniel Castle, Commissioner Erie County Dep't of Environment & Planning
Troy Schinzel, Commissioner of Parks, Recreation & Forestry, Erie County
William Geary, Commissioner Erie County Dep't of Public Works

Richard Stanton, Assistant County Attorney, Erie County
Tisha Luciani, BECBG Board Chair
Kimberly R. Nason, Phillips Lytle

Doc #12160606.5

Exhibit A

Full Environmental Assessment Form
Part 1 - Project and Setting

Instructions for Completing Part 1

Part 1 is to be completed by the applicant or project sponsor. Responses become part of the application for approval or funding, are subject to public review, and may be subject to further verification.

Complete Part 1 based on information currently available. If additional research or investigation would be needed to fully respond to any item, please answer as thoroughly as possible based on current information; indicate whether missing information does not exist, or is not reasonably available to the sponsor; and, when possible, generally describe work or studies which would be necessary to update or fully develop that information.

Applicants/sponsors must complete all items in Sections A & B. In Sections C, D & E, most items contain an initial question that must be answered either "Yes" or "No". If the answer to the initial question is "Yes", complete the sub-questions that follow. If the answer to the initial question is "No", proceed to the next question. Section F allows the project sponsor to identify and attach any additional information. Section G requires the name and signature of the applicant or project sponsor to verify that the information contained in Part 1is accurate and complete.

A. Project and Applicant/Sponsor Information.

Name of Action or Project: Buffalo and Erie County Botanical Gardens - Proposed Expansion Project		
Project Location (describe, and attach a general location map): 2655 South Park Avenue, Buffalo, New York 14218-1526 ("Site")		
Brief Description of Proposed Action (include purpose or need): Due to being at capacity for educational, event, exhibition, admissions and retail space, combined with the need to provide better accessibility for the public, the Buffalo and Erie County Botanical Gardens in partnership with Erie County (Site Owner) embarked on a master planning process. After thoughtful consideration, the master plan has resulted in a project proposal to renovate 14,495 SF +/- of existing space in the 1960 growing range building (including 2 growhouses) and construct a building addition to add 16,500SF +/- of new space (expanded event spaces, classrooms, gift shop and reception area) adjacent to the growing range building and connecting to the historic conservatory through existing exhibit spaces. The current spaces within the historic conservatory that are used for admissions, retail and events will be converted to exhibition spaces for the living museum. A 52 space parking lot is planned to support these new amenities. In addition, a new 6"DIP waterline for domestic water and a new 8" DIP waterline for fire water are planned, both to be connected through a backflow preventer and meter to the existing 12" City of Buffalo waterline on South Park. Please see attached correspondence from the Society for a full project description.		
Name of Applicant/Sponsor: Buffalo and Erie County Botanical Gardens Society, Inc	Telephone: 716-316-9292 E-Mail: EGrajek@buffalogardens.com	
Address: 2655 South Park Ave		
City/PO: Buffalo	State: NY	Zip Code: 14218-1526
Project Contact (if not same as sponsor; give name and title/role): Erin Grajek, Interim President/CEO	Telephone: 716-36-9292 E-Mail: EGrajek@buffalogardens.com	
Address:		
City/PO:	State:	Zip Code:
Property Owner (if not same as sponsor): Erie County	Telephone: (716) 858-4954 E-Mail: William.Geary@erie.gov	
Address: 95 Franklin St. - 14th floor		
City/PO: Buffalo	State: NY	Zip Code: 14202

B. Government Approvals

B. Government Approvals, Funding, or Sponsorship. ("Funding" includes grants, loans, tax relief, and any other forms of financial assistance.)		
Government Entity	**If Yes: Identify Agency and Approval(s) Required**	**Application Date (Actual or projected)**
a. City Counsel, Town Board, or Village Board of Trustees ☐Yes☑No		
b. City, Town or Village Planning Board or Commission ☐Yes☑No		
c. City, Town or Village Zoning Board of Appeals ☐Yes☑No		
d. Other local agencies ☑Yes☐No	CoB DPW approval of two way roadway design, Buffalo Sewer Authority- Street Cut & Connections	2024
e. County agencies ☑Yes☐No	EC Legislature - Funding & NEPA review as RE GML 239-m, Amend Asset Mgmt Agreement	2024
f. Regional agencies ☐Yes☐No		
g. State agencies ☑Yes☐No	NYSDEC-SWPPP, ESD-Funding, NYSDOS-Bldg& SHPO-Historic Preservation, Fire Code Variance	DASNY-SAM grant and Coastal Consistency 2024
h. Federal agencies ☑Yes☐No	HUD - Funding	

i. Coastal Resources.
i. Is the project site within a Coastal Area, or the waterfront area of a Designated Inland Waterway? ☑Yes☐No

ii. Is the project site located in a community with an approved Local Waterfront Revitalization Program? ☑Yes☐No

iii. Is the project site within a Coastal Erosion Hazard Area? ☐Yes☑No

C. Planning and Zoning

C.1. Planning and zoning actions.

Will administrative or legislative adoption, or amendment of a plan, local law, ordinance, rule or regulation be the only approval(s) which must be granted to enable the proposed action to proceed? ☐Yes☑No

- **If Yes,** complete sections C, F and G.
- **If No,** proceed to question C.2 and complete all remaining sections and questions in Part 1

C.2. Adopted land use plans.

a. Do any municipally- adopted (city, town, village or county) comprehensive land use plan(s) include the site where the proposed action would be located? ☑Yes☐No

If Yes, does the comprehensive plan include specific recommendations for the site where the proposed action would be located? ☑Yes☐No

b. Is the site of the proposed action within any local or regional special planning district (for example: Greenway; Brownfield Opportunity Area (BOA); designated State or Federal heritage area; watershed management plan; or other?) ☑Yes☐No

If Yes, identify the plan(s):
NYS Heritage Areas:West Erie Canal Corridor

c. Is the proposed action located wholly or partially within an area listed in an adopted municipal open space plan, or an adopted municipal farmland protection plan? ☐Yes☑No

If Yes, identify the plan(s):

C.3. Zoning

a. Is the site of the proposed action located in a municipality with an adopted zoning law or ordinance. ☑ Yes ☐ No
If Yes, what is the zoning classification(s) including any applicable overlay district?
D-OG and Waterfront Overlay. This is an expansion of an existing facility on Erie County-owned land, and thus is not subject to local (City of Buffalo) zoning

b. Is the use permitted or allowed by a special or conditional use permit? ☑ Yes ☐ No

c. Is a zoning change requested as part of the proposed action? ☐ Yes ☑ No
If Yes,
i. What is the proposed new zoning for the site?

C.4. Existing community services.

a. In what school district is the project site located? Buffalo Public Schools

b. What police or other public protection forces serve the project site?
City of Buffalo (District A)

c. Which fire protection and emergency medical services serve the project site?
City of Buffalo

d. What parks serve the project site?
City of Buffalo Park (South Park), Olmsted Park System

D. Project Details

D.1. Proposed and Potential Development

a. What is the general nature of the proposed action (e.g., residential, industrial, commercial, recreational; if mixed, include all components)? Recreational/institutional

b. a. Total acreage of the site of the proposed action? 11.58 acres
b. Total acreage to be physically disturbed? 3.7 acres
c. Total acreage (project site and any contiguous properties) owned or controlled by the applicant or project sponsor? 11.58 acres

c. Is the proposed action an expansion of an existing project or use? ☑ Yes ☐ No
i. If Yes, what is the approximate percentage of the proposed expansion and identify the units (e.g., acres, miles, housing units, square feet)? % 20% Units: sq. ft.

d. Is the proposed action a subdivision, or does it include a subdivision? ☐ Yes ☑ No
If Yes,
i. Purpose or type of subdivision? (e.g., residential, industrial, commercial; if mixed, specify types)
ii. Is a cluster/conservation layout proposed? ☐ Yes ☐ No
iii. Number of lots proposed?
iv. Minimum and maximum proposed lot sizes? Minimum Maximum

e. Will the proposed action be constructed in multiple phases? ☑ Yes ☐ No
i. If No, anticipated period of construction: months
ii. If Yes:
- Total number of phases anticipated 2
- Anticipated commencement date of phase 1 (including demolition) 2 month 2025 year
- Anticipated completion date of final phase 12 month 2026 year
- Generally describe connections or relationships among phases, including any contingencies where progress of one phase may determine timing or duration of future phases:

Selective demolition and site work to accommodate the renovation and addition is anticipated to begin in or around February 2025, and final construction of building addition to be completed in or around December 2026.

f. Does the project include new residential uses? ☐Yes ☑No

If Yes, show numbers of units proposed.

	One Family	Two Family	Three Family	Multiple Family (four or more)
Initial Phase				
At completion of all phases				

g. Does the proposed action include new non-residential construction (including expansions)? ☑Yes ☐No

If Yes,

i. Total number of structures 1

ii. Dimensions (in feet) of largest proposed structure: 32 height; 115 width; and 138 length

iii. Approximate extent of building space to be heated or cooled: 16,500 square feet

h. Does the proposed action include construction or other activities that will result in the impoundment of any liquids, such as creation of a water supply, reservoir, pond, lake, waste lagoon or other storage? ☐Yes ☑No

If Yes,

i. Purpose of the impoundment: _____

ii. If a water impoundment, the principal source of the water: ☐ Ground water ☐ Surface water streams ☐ Other specify: _____

iii. If other than water, identify the type of impounded/contained liquids and their source. _____

iv. Approximate size of the proposed impoundment. Volume: _____ million gallons; surface area: _____ acres

v. Dimensions of the proposed dam or impounding structure: _____ height; _____ length

vi. Construction method/materials for the proposed dam or impounding structure (e.g., earth fill, rock, wood, concrete): _____

D.2. Project Operations

a. Does the proposed action include any excavation, mining, or dredging, during construction, operations, or both? (Not including general site preparation, grading or installation of utilities or foundations where all excavated materials will remain onsite) ☐Yes ☑No

If Yes:

i .What is the purpose of the excavation or dredging? _____

ii. How much material (including rock, earth, sediments, etc.) is proposed to be removed from the site?

- Volume (specify tons or cubic yards): _____
- Over what duration of time? _____

iii. Describe nature and characteristics of materials to be excavated or dredged, and plans to use, manage or dispose of them. _____

iv. Will there be onsite dewatering or processing of excavated materials? ☐Yes ☐No

If yes, describe. _____

v. What is the total area to be dredged or excavated? _____ acres

vi. What is the maximum area to be worked at any one time? _____ acres

vii. What would be the maximum depth of excavation or dredging? _____ feet

viii. Will the excavation require blasting? ☐Yes ☐No

ix. Summarize site reclamation goals and plan: _____

b. Would the proposed action cause or result in alteration of, increase or decrease in size of, or encroachment into any existing wetland, waterbody, shoreline, beach or adjacent area? ☐Yes ☑No

If Yes:

i. Identify the wetland or waterbody which would be affected (by name, water index number, wetland map number or geographic description): _____

ii. Describe how the proposed action would affect that waterbody or wetland, e.g. excavation, fill, placement of structures, or alteration of channels, banks and shorelines. Indicate extent of activities, alterations and additions in square feet or acres:

iii. Will the proposed action cause or result in disturbance to bottom sediments? ☐Yes ☐No
If Yes, describe:

iv. Will the proposed action cause or result in the destruction or removal of aquatic vegetation? ☐Yes ☐No
If Yes:

- acres of aquatic vegetation proposed to be removed:
- expected acreage of aquatic vegetation remaining after project completion:
- purpose of proposed removal (e.g. beach clearing, invasive species control, boat access):
- proposed method of plant removal:
- if chemical/herbicide treatment will be used, specify product(s):

v. Describe any proposed reclamation/mitigation following disturbance:

c. Will the proposed action use, or create a new demand for water? ☑Yes ☐No
If Yes:

i. Total anticipated water usage/demand per day: 600+/- gallons/day

ii. Will the proposed action obtain water from an existing public water supply? ☑Yes ☐No
If Yes:

- Name of district or service area: Water to be obtained from Buffalo Water (City Water Dept)
- Does the existing public water supply have capacity to serve the proposal? ☑Yes ☐No
- Is the project site in the existing district? ☑Yes ☐No
- Is expansion of the district needed? ☐Yes ☑No
- Do existing lines serve the project site? ☑Yes ☐No

iii. Will line extension within an existing district be necessary to supply the project? ☐Yes ☑No
If Yes:

- Describe extensions or capacity expansions proposed to serve this project:
- Source(s) of supply for the district:

iv. Is a new water supply district or service area proposed to be formed to serve the project site? ☐Yes ☐No
If, Yes:

- Applicant/sponsor for new district:
- Date application submitted or anticipated:
- Proposed source(s) of supply for new district:

v. If a public water supply will not be used, describe plans to provide water supply for the project:

vi. If water supply will be from wells (public or private), what is the maximum pumping capacity: _____ gallons/minute.

d. Will the proposed action generate liquid wastes? ☑Yes ☐No
If Yes:

i. Total anticipated liquid waste generation per day: 500+/- gallons/day

ii. Nature of liquid wastes to be generated (e.g., sanitary wastewater, industrial; if combination, describe all components and approximate volumes or proportions of each):
Sanitary wastewater

iii. Will the proposed action use any existing public wastewater treatment facilities? ☑Yes ☐No
If Yes:

- Name of wastewater treatment plant to be used: City of Buffalo Treatment Plant
- Name of district: City of Buffalo
- Does the existing wastewater treatment plant have capacity to serve the project? ☑Yes ☐No
- Is the project site in the existing district? ☑Yes ☐No
- Is expansion of the district needed? ☐Yes ☑No

- Do existing sewer lines serve the project site? ☑Yes ☐No
- Will a line extension within an existing district be necessary to serve the project? ☐Yes ☑No

  If Yes:
  - Describe extensions or capacity expansions proposed to serve this project: _____

iv. Will a new wastewater (sewage) treatment district be formed to serve the project site? ☐Yes ☑No

If Yes:
- Applicant/sponsor for new district: _____
- Date application submitted or anticipated: _____
- What is the receiving water for the wastewater discharge? _____

v. If public facilities will not be used, describe plans to provide wastewater treatment for the project, including specifying proposed receiving water (name and classification if surface discharge or describe subsurface disposal plans):

vi. Describe any plans or designs to capture, recycle or reuse liquid waste: _____

e. Will the proposed action disturb more than one acre and create stormwater runoff, either from new point sources (i.e. ditches, pipes, swales, curbs, gutters or other concentrated flows of stormwater) or non-point source (i.e. sheet flow) during construction or post construction? ☑Yes ☐No

If Yes:

i. How much impervious surface will the project create in relation to total size of project parcel?

_____ Square feet or 0.7 acres (impervious surface)

_____ Square feet or 11.58 acres (parcel size)

ii. Describe types of new point sources. Roof top gutters and downspouts, swales, curbs, stormwater conveyance piping.

iii. Where will the stormwater runoff be directed (i.e. on-site stormwater management facility/structures, adjacent properties, groundwater, on-site surface water or off-site surface waters)?

Prior to discharging into the existing lake within South Park, stormwater runoff will be directed to onsite practices and vegetated swales in accordance with the technical standards of the SPDES General Permit for Stormwater Discharges from Construction Activity; GP-0-20-001

- If to surface waters, identify receiving water bodies or wetlands:

  The existing lake in South Park discharges into an existing tributary along the CSX rail tracks before entering Lake Erie.
- Will stormwater runoff flow to adjacent properties? ☐Yes ☑No

iv. Does the proposed plan minimize impervious surfaces, use pervious materials or collect and re-use stormwater? ☑Yes ☐No

f. Does the proposed action include, or will it use on-site, one or more sources of air emissions, including fuel combustion, waste incineration, or other processes or operations? ☐Yes ☑No

If Yes, identify:

i. Mobile sources during project operations (e.g., heavy equipment, fleet or delivery vehicles)

ii. Stationary sources during construction (e.g., power generation, structural heating, batch plant, crushers)

iii. Stationary sources during operations (e.g., process emissions, large boilers, electric generation)

g. Will any air emission sources named in D.2.f (above), require a NY State Air Registration, Air Facility Permit, or Federal Clean Air Act Title IV or Title V Permit? ☐Yes ☑No

If Yes:

i. Is the project site located in an Air quality non-attainment area? (Area routinely or periodically fails to meet ambient air quality standards for all or some parts of the year) ☐Yes ☐No

ii. In addition to emissions as calculated in the application, the project will generate:
- _____Tons/year (short tons) of Carbon Dioxide (CO_2)
- _____Tons/year (short tons) of Nitrous Oxide (N_2O)
- _____Tons/year (short tons) of Perfluorocarbons (PFCs)
- _____Tons/year (short tons) of Sulfur Hexafluoride (SF_6)
- _____Tons/year (short tons) of Carbon Dioxide equivalent of Hydroflourocarbons (HFCs)
- _____Tons/year (short tons) of Hazardous Air Pollutants (HAPs)

h. Will the proposed action generate or emit methane (including, but not limited to, sewage treatment plants, landfills, composting facilities)? ☐Yes ☑No

If Yes:

i. Estimate methane generation in tons/year (metric): _____

ii. Describe any methane capture, control or elimination measures included in project design (e.g., combustion to generate heat or electricity, flaring): _____

i. Will the proposed action result in the release of air pollutants from open-air operations or processes, such as quarry or landfill operations? ☐Yes ☑No

If Yes: Describe operations and nature of emissions (e.g., diesel exhaust, rock particulates/dust):

j. Will the proposed action result in a substantial increase in traffic above present levels or generate substantial new demand for transportation facilities or services? ☑Yes ☐No

If Yes:

i. When is the peak traffic expected (Check all that apply): ☐ Morning ☑ Evening ☑Weekend
☐ Randomly between hours of _____ to _____.

ii. For commercial activities only, projected number of truck trips/day and type (e.g., semi trailers and dump trucks): _____

iii. Parking spaces: Existing 63 Proposed 116 +/- Net increase/decrease +53+/-

iv. Does the proposed action include any shared use parking? ☐Yes ☑No

v. If the proposed action includes any modification of existing roads, creation of new roads or change in existing access, describe:
South side of Park Road is changing from one-way to two-way to allow access to new parking lot

vi. Are public/private transportation service(s) or facilities available within ½ mile of the proposed site? ☑Yes ☐No

vii Will the proposed action include access to public transportation or accommodations for use of hybrid, electric or other alternative fueled vehicles? ☑Yes ☐No

viii. Will the proposed action include plans for pedestrian or bicycle accommodations for connections to existing pedestrian or bicycle routes? ☑Yes ☐No

k. Will the proposed action (for commercial or industrial projects only) generate new or additional demand for energy? ☑Yes ☐No

If Yes:

i. Estimate annual electricity demand during operation of the proposed action:
Estimated services will be 500kVA at 480V, approx. 600A of connected load. To be confirmed through final design

ii. Anticipated sources/suppliers of electricity for the project (e.g., on-site combustion, on-site renewable, via grid/local utility, or other):
Grid/local utility and the Society will pursue development of on site renewable sources pending grant funding

iii. Will the proposed action require a new, or an upgrade, to an existing substation? ☐Yes ☑No

l. Hours of operation. Answer all items which apply.

i. During Construction:

- Monday - Friday: 7 am - 3:30 pm
- Saturday: _____
- Sunday: _____
- Holidays: _____

ii. During Operations:

- Monday - Friday: 7:00am-11:00pm
- Saturday: 7:00am-11:00pm
- Sunday: 7:00am-11:00pm
- Holidays: 7:00am-11:00pm

m. Will the proposed action produce noise that will exceed existing ambient noise levels during construction, operation, or both? ☑ Yes ☐ No

If yes:

i. Provide details including sources, time of day and duration:

Temporary, during construction only

ii. Will the proposed action remove existing natural barriers that could act as a noise barrier or screen? ☐ Yes ☑ No

Describe:

n. Will the proposed action have outdoor lighting? ☑ Yes ☐ No

If yes:

i. Describe source(s), location(s), height of fixture(s), direction/aim, and proximity to nearest occupied structures:

Parking lot lighting and building lighting

ii. Will proposed action remove existing natural barriers that could act as a light barrier or screen? ☐ Yes ☑ No

Describe:

o. Does the proposed action have the potential to produce odors for more than one hour per day? ☐ Yes ☑ No

If Yes, describe possible sources, potential frequency and duration of odor emissions, and proximity to nearest occupied structures:

p. Will the proposed action include any bulk storage of petroleum (combined capacity of over 1,100 gallons) or chemical products 185 gallons in above ground storage or any amount in underground storage? ☐ Yes ☑ No

If Yes:

i. Product(s) to be stored

ii. Volume(s) _____ per unit time _____ (e.g., month, year)

iii. Generally, describe the proposed storage facilities:

q. Will the proposed action (commercial, industrial and recreational projects only) use pesticides (i.e., herbicides, insecticides) during construction or operation? ☑ Yes ☐ No

If Yes:

i. Describe proposed treatment(s):

Limited application of pesticides as necessary to maintain living plant collections pursuant to the Society's Integrated Pest Management Plan that utilizes alternative non-chemical methods of pest control to the maximum extent practicable. The IPM uses natural methods to control pests such as introduction of beneficial parasites/predator species, naturally occurring fungi/bacteria, plant extracts, soap, sulfur and horticultural oils, pheromone traps, boiling water and diatomaceous earth as alternatives to pesticides.

ii. Will the proposed action use Integrated Pest Management Practices? ☑ Yes ☐ No

r. Will the proposed action (commercial or industrial projects only) involve or require the management or disposal of solid waste (excluding hazardous materials)? ☐ Yes ☑ No

If Yes:

i. Describe any solid waste(s) to be generated during construction or operation of the facility:

- Construction: _____ tons per _____ (unit of time)
- Operation : _____ tons per _____ (unit of time)

ii. Describe any proposals for on-site minimization, recycling or reuse of materials to avoid disposal as solid waste:

- Construction:
- Operation:

iii. Proposed disposal methods/facilities for solid waste generated on-site:

- Construction:
- Operation:

s. Does the proposed action include construction or modification of a solid waste management facility? ☐ Yes ☑ No

If Yes:

i. Type of management or handling of waste proposed for the site (e.g., recycling or transfer station, composting, landfill, or other disposal activities): _____

ii. Anticipated rate of disposal/processing:

- _____ Tons/month, if transfer or other non-combustion/thermal treatment, or
- _____ Tons/hour, if combustion or thermal treatment

iii. If landfill, anticipated site life: _____ years

t. Will the proposed action at the site involve the commercial generation, treatment, storage, or disposal of hazardous waste? ☐ Yes ☑ No

If Yes:

i. Name(s) of all hazardous wastes or constituents to be generated, handled or managed at facility: _____

ii. Generally describe processes or activities involving hazardous wastes or constituents: _____

iii. Specify amount to be handled or generated _____ tons/month

iv. Describe any proposals for on-site minimization, recycling or reuse of hazardous constituents: _____

v. Will any hazardous wastes be disposed at an existing offsite hazardous waste facility? ☐ Yes ☐ No

If Yes: provide name and location of facility: _____

If No: describe proposed management of any hazardous wastes which will not be sent to a hazardous waste facility:

E. Site and Setting of Proposed Action

E.1. Land uses on and surrounding the project site

a. Existing land uses.

i. Check all uses that occur on, adjoining and near the project site.

☑ Urban ☐ Industrial ☐ Commercial ☐ Residential (suburban) ☐ Rural (non-farm)
☐ Forest ☐ Agriculture ☐ Aquatic ☑ Other (specify): Park/Recreation/Museum

ii. If mix of uses, generally describe:

b. Land uses and covertypes on the project site.

Land use or Covertype	Current Acreage	Acreage After Project Completion	Change (Acres +/-)
• Roads, buildings, and other paved or impervious surfaces	3.5	4.2	+0.7
• Forested	0	0	0
• Meadows, grasslands or brushlands (non-agricultural, including abandoned agricultural)	8.1	7.4	-0.7
• Agricultural (includes active orchards, field, greenhouse etc.)	0	0	0
• Surface water features (lakes, ponds, streams, rivers, etc.)	0	0.04	+0.04
• Wetlands (freshwater or tidal)	0	0	0
• Non-vegetated (bare rock, earth or fill)	0	0	0
• Other Describe: _____			

c. Is the project site presently used by members of the community for public recreation? ☑ Yes ☐ No

i. If Yes: explain: Adjacent to the City of Buffalo's South Park and Site provides public access to Botanical Gardens

d. Are there any facilities serving children, the elderly, people with disabilities (e.g., schools, hospitals, licensed day care centers, or group homes) within 1500 feet of the project site? ☑ Yes ☐ No

If Yes,

i. Identify Facilities:

OLV Charities Father Bakers, mercy Nursing Facility at OLV, OLV Human Services

e. Does the project site contain an existing dam? ☐ Yes ☑ No

If Yes:

i. Dimensions of the dam and impoundment:

- Dam height: _____ feet
- Dam length: _____ feet
- Surface area: _____ acres
- Volume impounded: _____ gallons OR acre-feet

ii. Dam's existing hazard classification: _____

iii. Provide date and summarize results of last inspection:

f. Has the project site ever been used as a municipal, commercial or industrial solid waste management facility, or does the project site adjoin property which is now, or was at one time, used as a solid waste management facility? ☐ Yes ☑ No

If Yes:

i. Has the facility been formally closed? ☐ Yes ☐ No

- If yes, cite sources/documentation: _____

ii. Describe the location of the project site relative to the boundaries of the solid waste management facility:

iii. Describe any development constraints due to the prior solid waste activities: _____

g. Have hazardous wastes been generated, treated and/or disposed of at the site, or does the project site adjoin property which is now or was at one time used to commercially treat, store and/or dispose of hazardous waste? ☐ Yes ☑ No

If Yes:

i. Describe waste(s) handled and waste management activities, including approximate time when activities occurred:

h. Potential contamination history. Has there been a reported spill at the proposed project site, or have any remedial actions been conducted at or adjacent to the proposed site? ☐ Yes ☑ No

If Yes:

i. Is any portion of the site listed on the NYSDEC Spills Incidents database or Environmental Site Remediation database? Check all that apply: ☐ Yes ☐ No

☐ Yes – Spills Incidents database — Provide DEC ID number(s): _____

☐ Yes – Environmental Site Remediation database — Provide DEC ID number(s): _____

☐ Neither database

ii. If site has been subject of RCRA corrective activities, describe control measures: _____

iii. Is the project within 2000 feet of any site in the NYSDEC Environmental Site Remediation database? ☑ Yes ☐ No

If yes, provide DEC ID number(s): 915047

iv. If yes to (i), (ii) or (iii) above, describe current status of site(s):

Remediation of the site is complete. See attachment.

v. Is the project site subject to an institutional control limiting property uses? ☐ Yes ☑ No

- If yes, DEC site ID number: _____
- Describe the type of institutional control (e.g., deed restriction or easement): _____
- Describe any use limitations: _____
- Describe any engineering controls: _____
- Will the project affect the institutional or engineering controls in place? ☐ Yes ☐ No
- Explain: _____

E.2. Natural Resources On or Near Project Site

a. What is the average depth to bedrock on the project site? 5+ feet

b. Are there bedrock outcroppings on the project site? ☐ Yes ☑ No
If Yes, what proportion of the site is comprised of bedrock outcroppings? _____ %

c. Predominant soil type(s) present on project site:

Niagara silt loam (Nh)	50 %
Niagara silt loam (NfA)	28+ %
Collamer silt loam (CtB)	7+ %

d. What is the average depth to the water table on the project site? Average: 2+/- feet

e. Drainage status of project site soils:
☐ Well Drained: _____ % of site
☑ Moderately Well Drained: 20 % of site
☑ Poorly Drained 80 % of site

f. Approximate proportion of proposed action site with slopes:
☑ 0-10%: 100 % of site
☐ 10-15%: _____ % of site
☐ 15% or greater: _____ % of site

g. Are there any unique geologic features on the project site? ☐ Yes ☑ No
If Yes, describe: _____

h. Surface water features.

i. Does any portion of the project site contain wetlands or other waterbodies (including streams, rivers, ponds or lakes)? ☐ Yes ☑ No

ii. Do any wetlands or other waterbodies adjoin the project site? ☑ Yes ☐ No

If Yes to either *i* or *ii*, continue. If No, skip to E.2.i.

iii. Are any of the wetlands or waterbodies within or adjoining the project site regulated by any federal, state or local agency? ☑ Yes ☐ No

iv. For each identified regulated wetland and waterbody on the project site, provide the following information:

- Streams: Name _____ Classification _____
- Lakes or Ponds: Name Lake at South Park Classification L1UBHx
- Wetlands: Name State Regulated Wetland West of Botanical Gardens Approximate Size 61.2 acres
- Wetland No. (if regulated by DEC) ID: BU-1, Class: 1

v. Are any of the above water bodies listed in the most recent compilation of NYS water quality-impaired waterbodies? ☐ Yes ☑ No

If yes, name of impaired water body/bodies and basis for listing as impaired: _____

i. Is the project site in a designated Floodway? ☐ Yes ☑ No

j. Is the project site in the 100-year Floodplain? ☐ Yes ☑ No

k. Is the project site in the 500-year Floodplain? ☐ Yes ☑ No

l. Is the project site located over, or immediately adjoining, a primary, principal or sole source aquifer? ☐ Yes ☑ No
If Yes:

i. Name of aquifer: _____

m. Identify the predominant wildlife species that occupy or use the project site:
N/A

n. Does the project site contain a designated significant natural community? ☐Yes ☑No
If Yes:
i. Describe the habitat/community (composition, function, and basis for designation):
ii. Source(s) of description or evaluation:
iii. Extent of community/habitat:
- Currently: _____ acres
- Following completion of project as proposed: _____ acres
- Gain or loss (indicate + or -): _____ acres

o. Does project site contain any species of plant or animal that is listed by the federal government or NYS as endangered or threatened, or does it contain any areas identified as habitat for an endangered or threatened species? ☐Yes ☑No
If Yes:
i. Species and listing (endangered or threatened):

p. Does the project site contain any species of plant or animal that is listed by NYS as rare, or as a species of special concern? ☐Yes ☑No
If Yes:
i. Species and listing:

q. Is the project site or adjoining area currently used for hunting, trapping, fishing or shell fishing? ☐Yes ☑No
If yes, give a brief description of how the proposed action may affect that use:

E.3. Designated Public Resources On or Near Project Site

a. Is the project site, or any portion of it, located in a designated agricultural district certified pursuant to Agriculture and Markets Law, Article 25-AA, Section 303 and 304? ☐Yes ☑No
If Yes, provide county plus district name/number:

b. Are agricultural lands consisting of highly productive soils present? ☐Yes ☑No
i. If Yes: acreage(s) on project site?
ii. Source(s) of soil rating(s):

c. Does the project site contain all or part of, or is it substantially contiguous to, a registered National Natural Landmark? ☐Yes ☑No
If Yes:
i. Nature of the natural landmark: ☐ Biological Community ☐ Geological Feature
ii. Provide brief description of landmark, including values behind designation and approximate size/extent:

d. Is the project site located in or does it adjoin a state listed Critical Environmental Area? ☐Yes ☑No
If Yes:
i. CEA name:
ii. Basis for designation:
iii. Designating agency and date:

e. Does the project site contain, or is it substantially contiguous to, a building, archaeological site, or district which is listed on the National or State Register of Historic Places, or that has been determined by the Commissioner of the NYS Office of Parks, Recreation and Historic Preservation to be eligible for listing on the State Register of Historic Places? ☑ Yes ☐ No

If Yes:

i. Nature of historic/archaeological resource: ☐ Archaeological Site ☑ Historic Building or District

ii. Name: Eligible property:Commercial Building, Our Lady of Victory Roman Catholic Church Historic District, Cazenovia Park-So...

iii. Brief description of attributes on which listing is based:

Refer to attached narrative.

f. Is the project site, or any portion of it, located in or adjacent to an area designated as sensitive for archaeological sites on the NY State Historic Preservation Office (SHPO) archaeological site inventory? ☑ Yes ☐ No

g. Have additional archaeological or historic site(s) or resources been identified on the project site? ☐ Yes ☑ No

If Yes:

i. Describe possible resource(s): _____

ii. Basis for identification: _____

h. Is the project site within fives miles of any officially designated and publicly accessible federal, state, or local scenic or aesthetic resource? ☐ Yes ☑ No

If Yes:

i. Identify resource: _____

ii. Nature of, or basis for, designation (e.g., established highway overlook, state or local park, state historic trail or scenic byway, etc.): _____

iii. Distance between project and resource: _____ miles.

i. Is the project site located within a designated river corridor under the Wild, Scenic and Recreational Rivers Program 6 NYCRR 666? ☐ Yes ☑ No

If Yes:

i. Identify the name of the river and its designation: _____

ii. Is the activity consistent with development restrictions contained in 6NYCRR Part 666? ☐ Yes ☐ No

F. Additional Information

Attach any additional information which may be needed to clarify your project.

If you have identified any adverse impacts which could be associated with your proposal, please describe those impacts plus any measures which you propose to avoid or minimize them.

G. Verification

I certify that the information provided is true to the best of my knowledge.

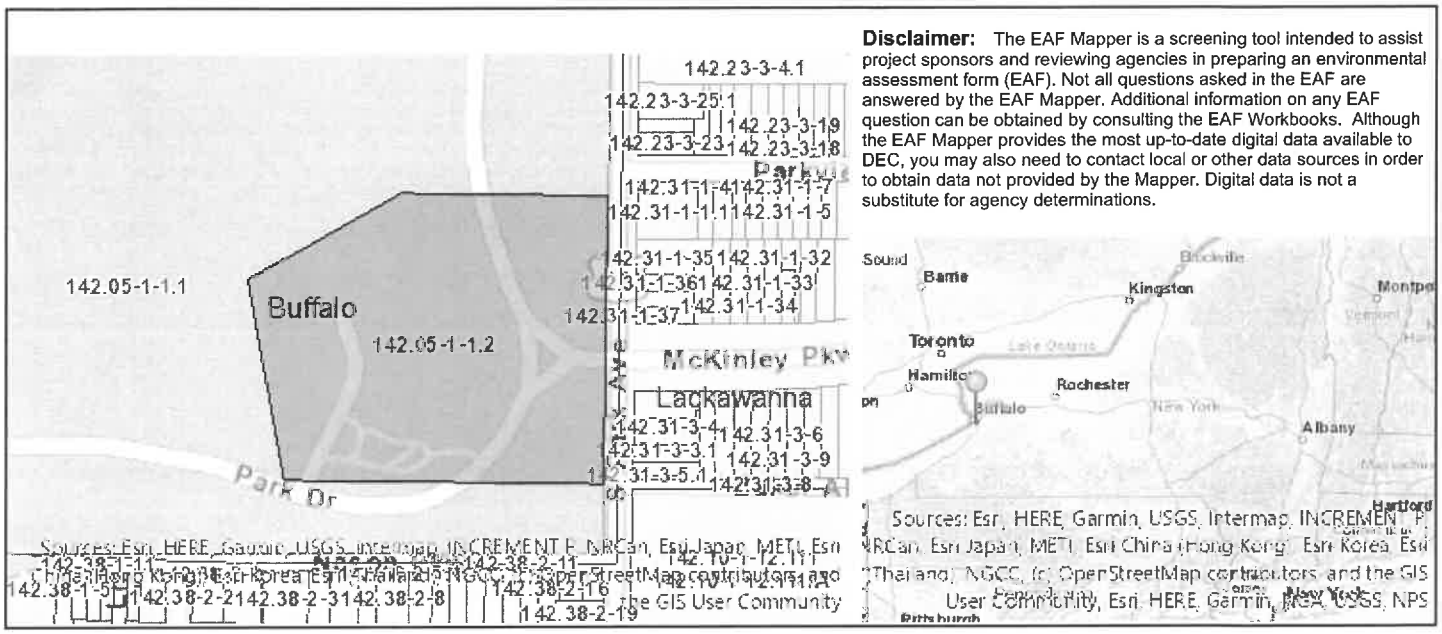
Applicant/Sponsor Name Buffalo&Erie County Botanical Gardens Society Date 9/27/2024

Signature _____ Title Interim President/CEO

PRINT FORM

EAF Mapper Summary Report

Tuesday, December 19, 2023 3:26 PM



Disclaimer: The EAF Mapper is a screening tool intended to assist project sponsors and reviewing agencies in preparing an environmental assessment form (EAF). Not all questions asked in the EAF are answered by the EAF Mapper. Additional information on any EAF question can be obtained by consulting the EAF Workbooks. Although the EAF Mapper provides the most up-to-date digital data available to DEC, you may also need to contact local or other data sources in order to obtain data not provided by the Mapper. Digital data is not a substitute for agency determinations.

B.i.i [Coastal or Waterfront Area]	Yes
B.i.ii [Local Waterfront Revitalization Area]	No
C.2.b. [Special Planning District]	Yes - Digital mapping data are not available for all Special Planning Districts. Refer to EAF Workbook.
C.2.b. [Special Planning District - Name]	NYS Heritage Areas:West Erie Canal Corridor
E.1.h [DEC Spills or Remediation Site - Potential Contamination History]	Digital mapping data are not available or are incomplete. Refer to EAF Workbook.
E.1.h.i [DEC Spills or Remediation Site - Listed]	Digital mapping data are not available or are incomplete. Refer to EAF Workbook.
E.1.h.i [DEC Spills or Remediation Site - Environmental Site Remediation Database]	Digital mapping data are not available or are incomplete. Refer to EAF Workbook.
E.1.h.iii [Within 2,000' of DEC Remediation Site]	Yes
E.1.h.iii [Within 2,000' of DEC Remediation Site - DEC ID]	915047
E.2.g [Unique Geologic Features]	No
E.2.h.i [Surface Water Features]	No
E.2.h.ii [Surface Water Features]	Yes
E.2.h.iii [Surface Water Features]	Yes - Digital mapping information on local and federal wetlands and waterbodies is known to be incomplete. Refer to EAF Workbook.
E.2.h.v [Impaired Water Bodies]	No
E.2.i. [Floodway]	No
E.2.j. [100 Year Floodplain]	No
E.2.k. [500 Year Floodplain]	No
E.2.l. [Aquifers]	No
E.2.n. [Natural Communities]	No

E.2.o. [Endangered or Threatened Species]	No
E.2.p. [Rare Plants or Animals]	No
E.3.a. [Agricultural District]	No
E.3.c. [National Natural Landmark]	No
E.3.d [Critical Environmental Area]	No
E.3.e. [National or State Register of Historic Places or State Eligible Sites]	Yes - Digital mapping data for archaeological site boundaries are not available. Refer to EAF Workbook.
E.3.e.ii [National or State Register of Historic Places or State Eligible Sites - Name]	Eligible property:Commercial Building, Our Lady of Victory Roman Catholic Church Historic District, Cazenovia Park-South Park System
E.3.f. [Archeological Sites]	Yes
E.3.i. [Designated River Corridor]	No

NEW YORK STATE OF OPPORTUNITY | Department of Environmental Conservation

Environmental Site Remediation Database Search Details

Site Record

Document Repository

Site-related documents are available for review through the DECInfo Locator on line at DECInfoLocator

Administrative Information

Site Name: Republic Steel (LTV) (Marilla St. LF)
Site Code: 915047
Program: State Superfund Program
Classification: 04
EPA ID Number:

Location

DEC Region: 9
Address: Marilla Street and Hopkins Street
City: Buffalo Zip: 14220
County: Erie
Latitude: 42.83545689
Longitude: -78.83385856
Site Type: LANDFILL
Estimated Size: 108 Acres

Institutional And Engineering Controls

Control Type:
Decision Document

Control Elements:
Monitoring Plan
Cover System

Site Owner(s) and Operator(s)

Current Owner Name: Buffalo Real, Inc.
Current Owner(s) Address: 5946 Old Lake Shore Road
Lake View,NY, 14085
Owner(s) during disposal: LTV STEEL CORPORATION

Hazardous Waste Disposal Period

From: early 1900 **To:** 1981

Site Description

Location: The Republic Steel (LTV)(Marilla St. LF)site is an approximately 108-acre site located in an industrial area at Marilla and Hopkins Streets in the City of Buffalo, Erie County. The site is bordered on the north, east and west by railroad tracks and by South Park to the south. The site is within half a mile of Lake Erie. Site Features: The site consists of an 80-acre landfill, three ponds, and two ditches. Approximately 30 acres of the site is open water and wetland. Current Zoning and Land Use: The site is zoned for General Industrial use. The area directly southeast of the site is zoned as a Dwelling District and the area due west of the site is zoned Heavy Industrial. Past Use of the Site: Republic Steel used the site for disposal of slag, blast furnace dust, basic oxygen furnace dust, clarifier sludge, precipitator dust, railroad ties, construction debris and waste oils and acids from 1930 until 1981. Site Geology and Hydrogeology: The site geology in the landfill area consists of waste/fill ranging from approximately 3 to 49 feet in thickness, followed by glaciolacustrine, glacial till and bedrock. The bedrock varies approximately from 14 to 60 feet below ground surface (fbgs) and consists of a sequence of shale and limestones. In general, shallow groundwater flows towards nearby surface water bodies. The ditch on the north flows into the north ponds. A ditch on the west side of the landfill connects the south and north ponds.

Contaminants of Concern (Including Materials Disposed)

Contaminant Name/Type
PICKLE LIQUOR (K062 WASTE)
pickle liquor

Site Environmental Assessment

Remediation at the site is complete. Prior to remediation the primary contaminants of concern were metals, including lead and mercury, tricholoethene, phenols, ketones, and polycyclic aromatic hydrocarbons (PAHs) in soil, groundwater, and sediment. Remedial activities have successfully achieved soil cleanup objectives for a closed landfill. Residual contamination in soil, groundwater, and sediment is being managed under a Site Management Plan.

Site Health Assessment

Access to the site is restricted, and the landfill is properly capped; therefore, people are not likely to contact contaminated soils. Measures are in place to prevent contact with the underlying contamination. People are not drinking the contaminated groundwater because the area is served by a public water supply that is not contaminated by the site.

For more Information: E-mail Us

Refine This Search

U.S. Fish and Wildlife Service
National Wetlands Inventory

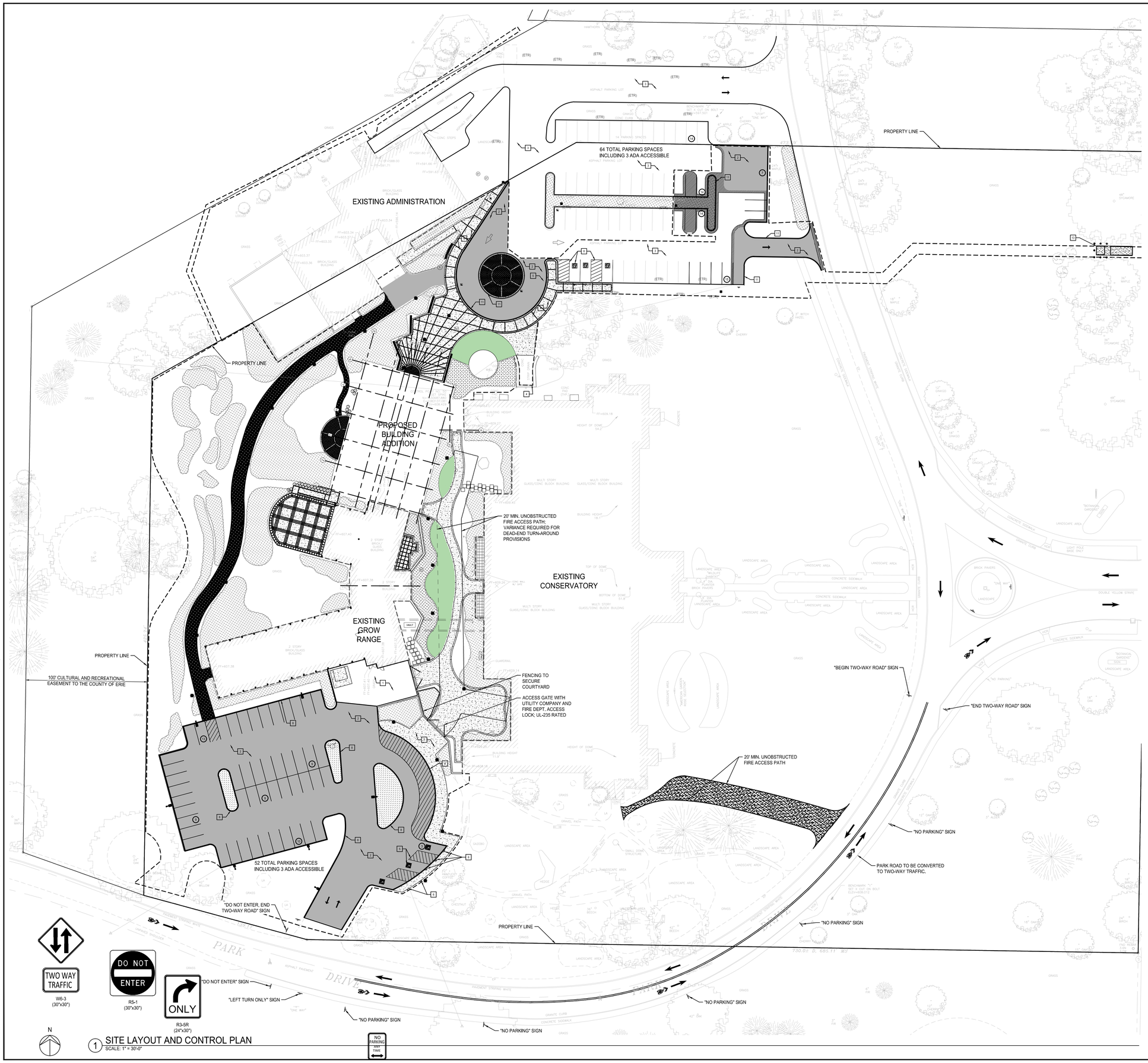
Federally Managed Wetlands

September 10, 2024

Wetlands

- Estuarine and Marine Deepwater
- Estuarine and Marine Wetland
- Freshwater Emergent Wetland
- Freshwater Forested/Shrub Wetland
- Freshwater Pond
- Lake
- Other
- Riverine

Exhibit B



1 SITE LAYOUT AND CONTROL PLAN
SCALE: 1" = 30'-0"

SITE LAYOUT NOTES:

1. ASPHALT PAVEMENT
2. STAMPED CONCRETE / PAVERS
3. CONCRETE SIDEWALK.
4. LIMESTONE SCREENINGS
5. 4" WHITE PAVEMENT HATCHING.
6. ACCESSIBLE PARKING STRIPING AND SYMBOL.
7. ACCESSIBLE PARKING SIGN.
8. DRIVEWAY APRON.
9. CONCRETE CURB.
10. ADA ACCESSIBLE RAMP.
11. CONCRETE PAD WITH CONCRETE FILLED BOLLARDS.

GENERAL CONSTRUCTION NOTES:

1. SEE ELECTRICAL SERIES FOR SITE LIGHTING.
2. REFER TO C300s FOR GRADING AND DRAINAGE PLAN.
3. REFER TO LANDSCAPE PLANS FOR DETAIL ON RESTORATION..
4. REFER TO ARCHITECTURAL PLANS FOR ADDITIONAL INFORMATION ON THE BUILDING ELEMENTS.
5. ALL SEWERS SHALL REMAIN ACTIVE THROUGHOUT CONSTRUCTION.

BUFFALO AND ERIE COUNTY Botanical Gardens

Buffalo & Erie County Botanical Gardens
B&EC BOTANICAL GARDENS
2655 SOUTH PARK AVENUE
BUFFALO, NEW YORK, 14218

B&EC Botanical Gardens Addition
Design Development

wendel
237 Main Street, Suite 500
Buffalo, NY 14203
www.wendelcompanies.com
p.716.688.0766 f.716.625.6825

Wendel WD Architecture, Engineering, Surveying and Landscape Architecture, P.C.

bucholzmcevoyARCHITECTS

PROGRESS PRINT
05/08/2024
NOT FOR CONSTRUCTION

NO.	REVISIONS	DATE

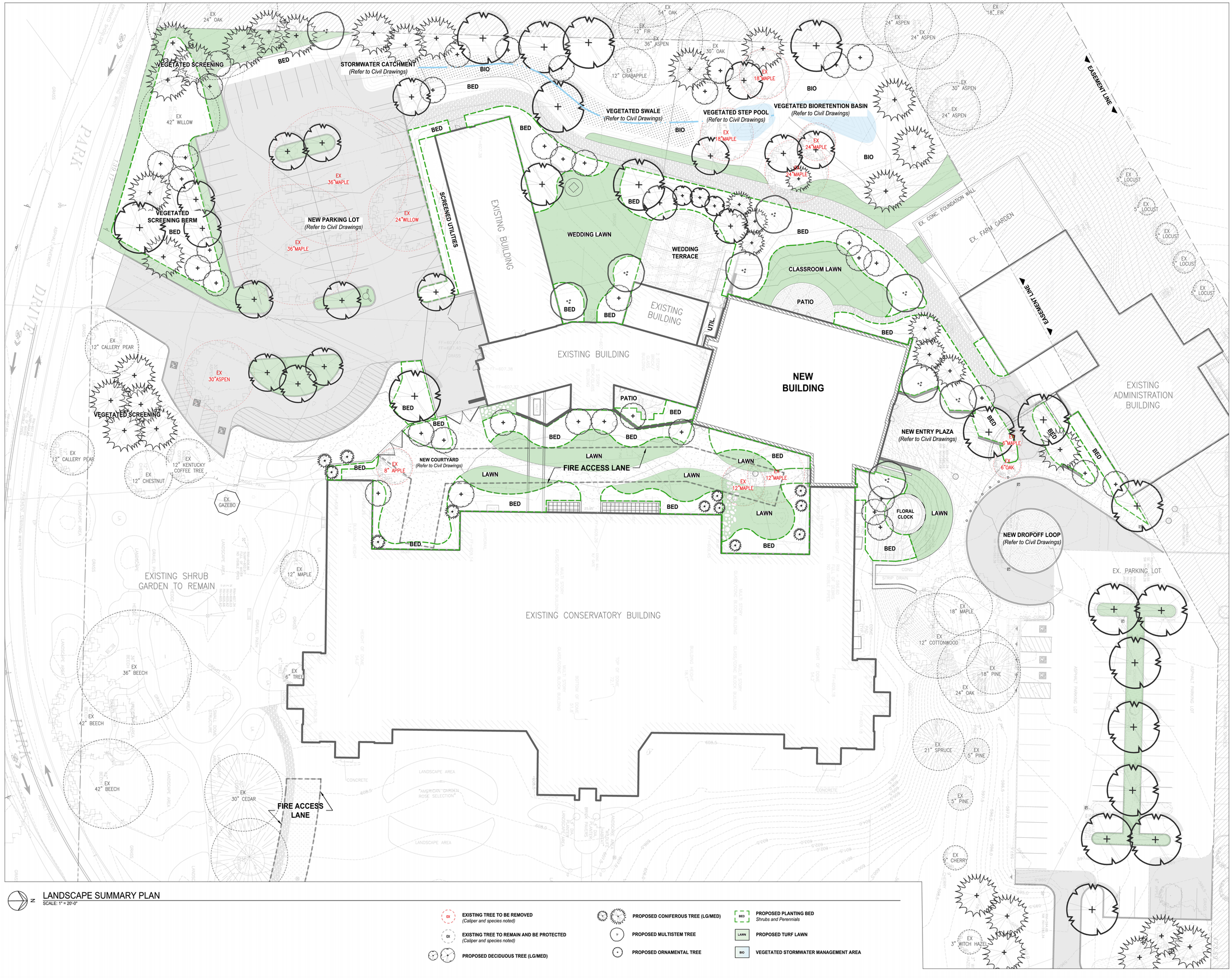
DWG. TITLE

SITE LAYOUT AND CONTROL PLAN

0 1' 2'
GENERIC SCALE BAR
SCALE BAR SHOWN IS TWO INCHES ON THE ORIGINAL DRAWING. IF NOT TWO INCHES ON THIS SHEET, ADJUST ACCORDINGLY

DATE	02-09-2024
SCALE	AS NOTED
DWN.	KPB
CHK.	TAR
PROJ. No.	605802
DWG. No.	C200

Jul 25, 2024 - 7:13am
C:\Users\V21\DC\ACCDocs\Wendel\605802 - B&EC Botanical Gardens Masterplan\Project Files_Revit & CAD\Civil\Compass9A\C200 Layout Plan - B&EC Botanical Gardens .dwg



N

LANDSCAPE SUMMARY PLAN
SCALE: 1" = 20'-0"

- EX — EXISTING TREE TO BE REMOVED *(Caliper and species noted)*
- EX — EXISTING TREE TO REMAIN AND BE PROTECTED *(Caliper and species noted)*
- PROPOSED DECIDUOUS TREE (LG/MED)
- PROPOSED CONIFEROUS TREE (LG/MED)
- PROPOSED MULTISTEM TREE
- PROPOSED ORNAMENTAL TREE
- BED — PROPOSED PLANTING BED *Shrubs and Perennials*
- LAWN — PROPOSED TURF LAWN
- BIO — VEGETATED STORMWATER MANAGEMENT AREA

BUFFALO AND ERIE COUNTY Botanical Gardens

Buffalo & Erie County Botanical Gardens
B&EC BOTANICAL GARDENS
2655 SOUTH PARK AVENUE
BUFFALO, NEW YORK, 14218

B&EC Botanical Gardens Addition
Design Development

wendel
237 Main Street, Suite 500
Buffalo, NY 14203
www.wendelcompanies.com
p:716.888.0766 f:716.625.6825

Wendel WD Architecture, Engineering, Surveying and Landscape Architecture, P.C.

bucholzmcevoy ARCHITECTS

PROGRESS PRINT
05/08/2024
NOT FOR CONSTRUCTION

NO.	REVISIONS	DATE

DWG. TITLE

LANDSCAPE SUMMARY PLAN

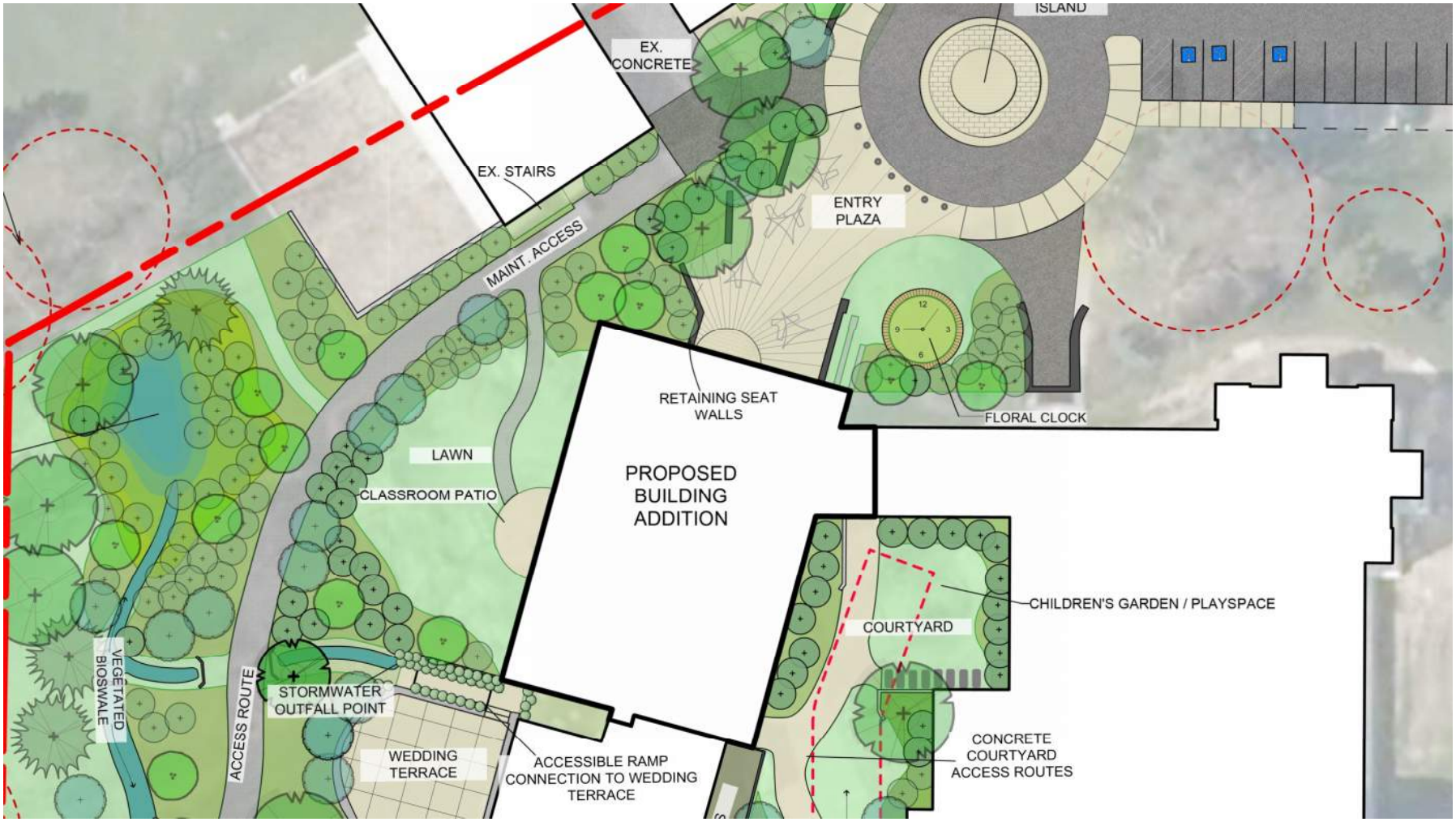
0 1" 2"
GENERIC SCALE BAR
SCALE BAR SHOWN IS TWO INCHES ON THE ORIGINAL DRAWING. IF NOT TWO INCHES ON THIS SHEET, ADJUST ACCORDINGLY

DATE	
SCALE	AS NOTED
DWN.	EKG
CHK.	DWG
PROJ. No.	605802
DWG. No.	L401

Aug 08, 2024 - 10:08am
C:\Users\ekg\OC\ACCDocs\Wendel\605802 - B&EC Botanical Gardens Masterplan\Project Files_Revit & CAD\LA\Composite\605802_SHPO Tree Planting Summary.dwg

Site

Overall Plan



Site *Plan Enlargements*

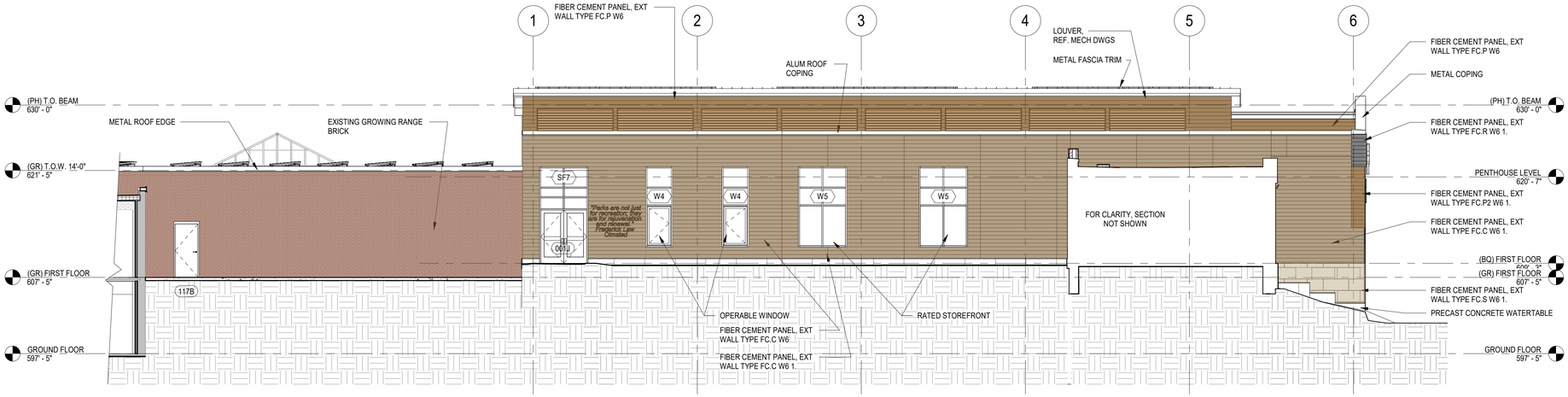
Site *Plan Enlargements*

Exhibit C

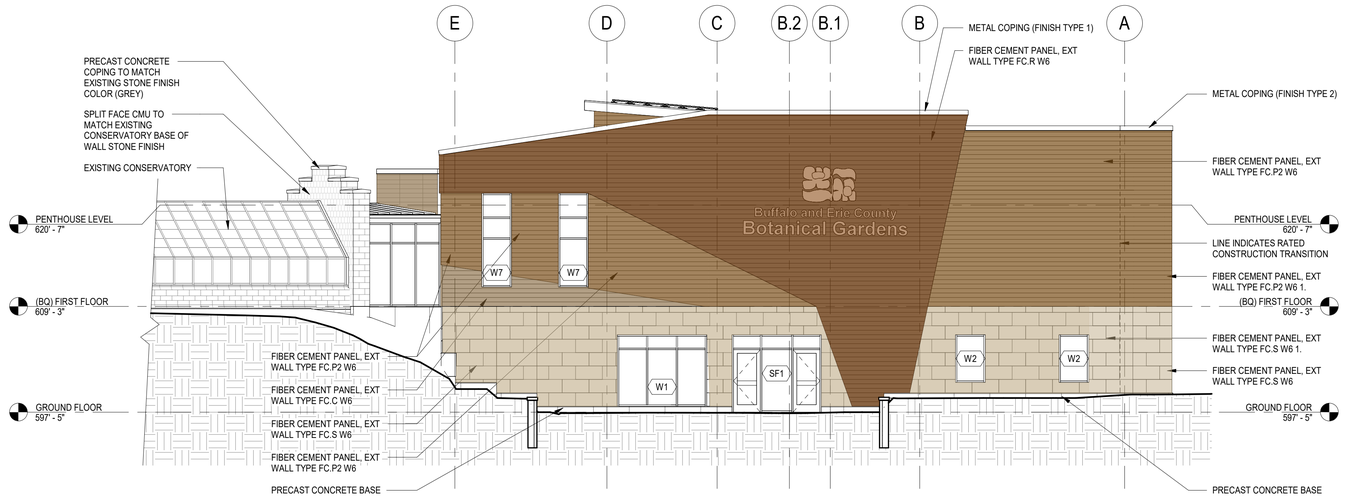

Buffalo and Erie County
Botanical Gardens


FIBER CEMENT PANEL (WOOD FINISH TYPE 3)
NICHIHA VINTAGEWOOD CEDAR
FIBER CEMENT PANEL (WOOD FINISH TYPE 2)
NICHIHA VINTAGEWOOD POPLAR
FIBER CEMENT PANEL (WOOD FINISH TYPE 1)
NICHIHA VINTAGEWOOD REDWOOD
FIBER CEMENT PANEL (SANDSTONE FINISH)
NICHIHA SANDSTONE DESERT
Buffalo and Erie County
Botanical Gardens
WOOD FINISH 3 - CEDAR
WOOD FINISH 1 - REDWOOD
WOOD FINISH 2 - POPLAR
SANDSTONE FINISH - DESERT

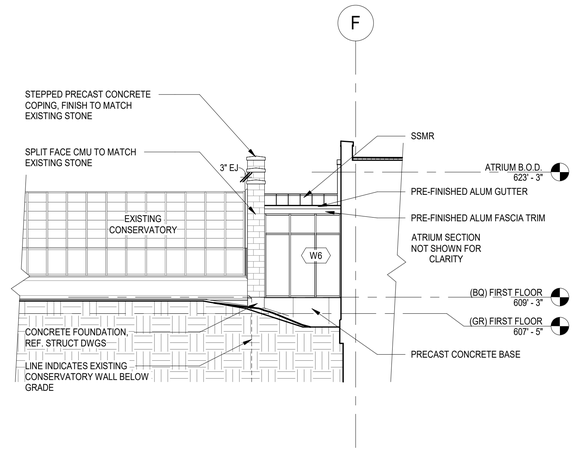
Exhibit D



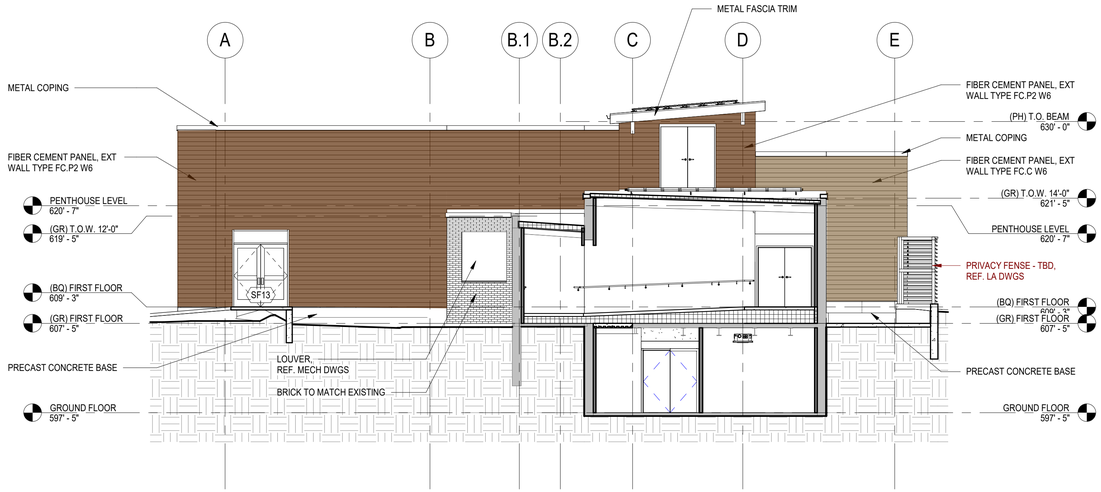
EAST ELEVATION FACING COURTYARD



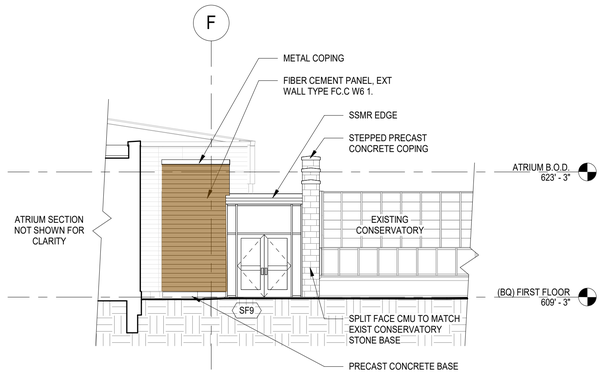
NORTH ELEVATION AT MAIN ENTRY



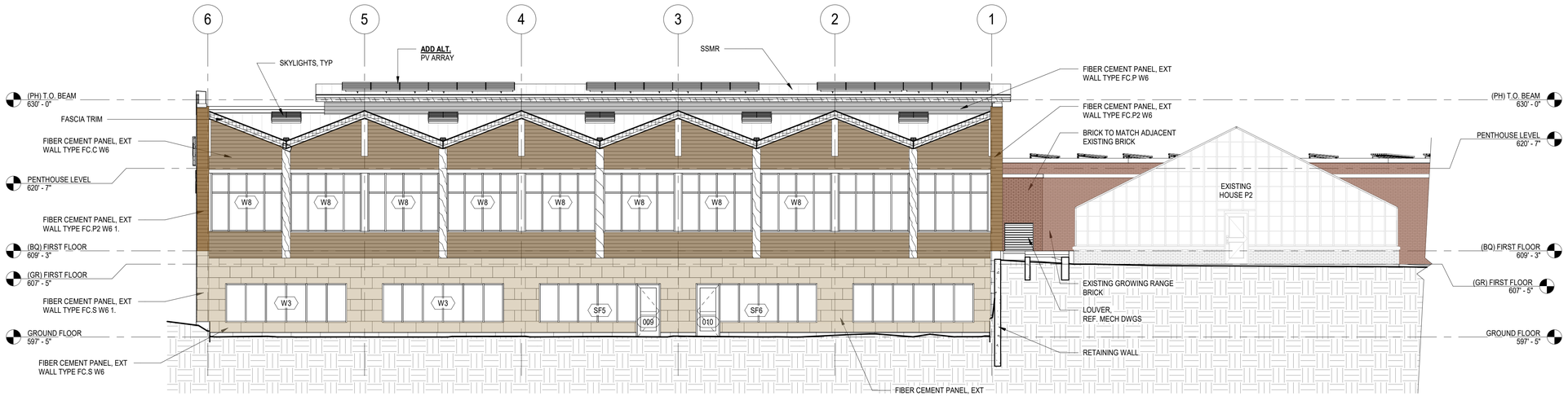
NORTHWEST ELEVATION FACING ENTRY AT CONNECTION TO EXISTING CONSERVATORY



SOUTH ELEVATION OF NEW ADDITION AND SECTION THROUGH GROW RANGE



SOUTHEAST ELEVATION FACING COURTYARD AT CONNECTION TO EXISTING CONSERVATORY



WEST ELEVATION FACING SOUTH PARK

Exhibit E

NEW YORK STATE DEPARTMENT OF STATE
COASTAL MANAGEMENT PROGRAM

Coastal Assessment Form

A. INSTRUCTIONS (Please print or type all answers)

1. State agencies shall complete this CAF for proposed actions which are subject to Part 600 of Title 19 of the NYCRR. This assessment is intended to supplement other information used by a state agency in making a determination of significance pursuant to the State Environmental Quality Review Act (see 6 NYCRR, Part 617). If it is determined that a proposed action will not have a significant effect on the environment, this assessment is intended to assist a state agency in complying with the certification requirements of 19 NYCRR Section 600.4.

2. If any question in Section C on this form is answered "yes", then the proposed action may affect the achievement of the coastal policies contained in Article 42 of the Executive Law. Thus, the action should be analyzed in more detail and, if necessary, modified prior to either (a) making a certification of consistency pursuant to 19 NYCRR Part 600 or, (b) making the findings required under SEQR, 6 NYCRR, Section 617.11, if the action is one for which an environmental impact statement is being prepared. If an action cannot be certified as consistent with the coastal policies, it shall not be undertaken.

3. Before answering the questions in Section C, the preparer of this form should review the coastal policies contained in 19 NYCRR Section 600.5. A proposed action should be evaluated as to its significant beneficial and adverse effects upon the coastal area.

B. DESCRIPTION OF PROPOSED ACTION

1. Type of state agency action (check appropriate response):

   (a) Directly undertaken (e.g. capital construction, planning activity, agency regulation, land transaction) X
   (b) Financial assistance (e.g. grant, loan, subsidy) X
   (c) Permit, license, certification X

2. Describe nature and extent of action: See attached letter of intent. The Buffalo and Erie County Botanical Gardens Society, Inc. proposes an expansion including renovation of an existing 14,500 sq. ft. existing grow range building and the construction of an ~~approximately 16,500 sq.ft. addition to enhance the historically and culturally significant site and expand educational programing~~ space and accessible visitor amenities to secure critical revenue to preserve the Gardens for years to come ("Expansion"). The Expansion will increase opportunities for public recreation, preserve the Gardens, and promote LWRP policies on a site that is approximately 1.6 miles inland from Buffalo's Outer Harbor.

3. Location of action:

Erie County	City of Buffalo	2451/2655 South Park Avenue
County	City, Town or Village	Street or Site Description

4. If an application for the proposed action has been filed with the state agency, the following information shall be provided:

   (a) Name of applicant: Buffalo and Erie County Botanical Gardens Society, Inc.

   (b) Mailing address: 2655 South Park Avenue, Buffalo, NY 14218

   (c) Telephone Number: Area Code (716) 380-5733

   (d) State agency application number:

5. Will the action be directly undertaken, require funding, or approval by a federal agency?

   Yes X No _____ If yes, which federal agency? U.S. Dep't of Housing & Urban Development -funding

C. COASTAL ASSESSMENT (Check either "YES" or "NO" for each of the following questions)

	YES	NO
1. Will the proposed activity be located in, or contiguous to, or have a significant effect upon any of the resource areas identified on the coastal area map:		
(a) Significant fish or wildlife habitats?		X
(b) Scenic resources of statewide significance?		X
(c) Important agricultural lands?		X
2. Will the proposed activity have a significant effect upon:		
(a) Commercial or recreational use of fish and wildlife resources?		X
(b) Scenic quality of the coastal environment?		X
(c) Development of future, or existing water dependent uses?		X
(d) Operation of the State's major ports?		X
(e) Land and water uses within the State's small harbors?		X
(f) Existing or potential public recreation opportunities?	X	
(g) Structures, sites or districts of historic, archeological or cultural significance to the State or nation?	X	

3. Will the proposed activity involve or result in any of the following:

(a) Physical alteration of two (2) acres or more of land along the shoreline, land under water or coastal waters?	___	x
(b) Physical alteration of five (5) acres or more of land located elsewhere in the coastal area?	___	x
(c) Expansion of existing public services of infrastructure in undeveloped or low density areas of the coastal area?	___	x
(d) Energy facility not subject to Article VII or VIII of the Public Service Law?	___	x
(e) Mining, excavation, filling or dredging in coastal waters?	___	x
(f) Reduction of existing or potential public access to or along the shore?	___	x
(g) Sale or change in use of state-owned lands located on the shoreline or under water?		
(h) Development within a designated flood or erosion hazard area?	___	x
(i) Development on a beach, dune, barrier island or other natural feature that provides protection against flooding or erosion?	___	x

4. Will the proposed action be located in or have a significant effect upon an area included in an approved Local Waterfront Revitalization Program? . . . . . x ___

D. SUBMISSION REQUIREMENTS

If any question in Section C is answered "Yes", AND either of the following two conditions is met:

Section B.1(a) or B.1(b) is checked; or
Section B.1(c) is checked AND B.5 is answered "Yes",

THEN a copy of this completed Coastal Assessment Form shall be submitted to:

New York State Department of State
Office of Coastal, Local Government and Community Sustainability
One Commerce Plaza
99 Washington Avenue, Suite 1010
Albany, New York 12231-0001

If assistance or further information is needed to complete this form, please call the Department of State at (518) 474-6000.

E. REMARKS OR ADDITIONAL INFORMATION

Preparer's Name:_____
(Please print)

Title: _____ Agency: _____

Telephone Number: (_____)_____ Date: _____

Exhibit F

Buffalo and Erie County Botanical Gardens Proposed Expansion
List of Potentially Interested and Involved Agencies

The following is a list of potentially interested and involved agencies:

1. New York State Urban Development Corporation d/b/a/ Empire State Development
   Attn: Hope Knight, President & CEO
   633 Third Avenue, 37th Floor
   New York, NY 10017-6754

2. New York State Urban Development Corporation d/b/a Empire State Development, Regional Office for Western New York,
   Attn: Karen Utz, Regional Director
   95 Perry Street, Suite 500, Buffalo, NY 14203-3030, (716) 846-8200

3. New York State Department of State
   Office of Coastal, Local Government and Community Sustainability
   One Commerce Plaza
   99 Washington Avenue, Suite 1010
   Albany, NY 12231

4. New York State Department of State, Division of Building Standards & Codes
   Buffalo Regional Board of Review
   Ellicott Square Building
   295 Main Street
   8th Floor – Room #821
   Buffalo, NY 14203

5. New York State Division of Historic Preservation, NYOPRHP
   Attn: Daniel Mackay, Deputy Commissioner
   1 Delaware Avenue North
   Cohoes, NY 112047

6. New York State Department of Environmental Conservation, Region 9
   Attn: David Denk
   700 Delaware Avenue
   Buffalo, NY 14209

7. Erie County, Department of Public Works
   Attn: William Geary, Commissioner
   95 Franklin Street, 14th Floor
   Buffalo, NY 14202
8. City of Buffalo, Department of Public Works
   Attn: Nate Marton, Commissioner

65 Niagara Square, Room 202
Buffalo, NY 14202

9. Buffalo Sewer Authority
   65 Niagara Square, Room 1038
   Buffalo, NY 14202

10. City of Buffalo, Division of Parks & Recreation
    Attn: Andrew Rabb, Deputy Commissioner
    65 Niagara Square, Room 505
    Buffalo, NY 14202

11. City of Buffalo Fire Department
    Attn: William Renaldo, Fire Commissioner
    195 Court Street
    Buffalo, NY 14202

12. City of Buffalo, Common Council
    Attn: Christopher P. Scanlon, Council President
    South District Council Member
    65 Niagara Sq., Rm. 1315
    Buffalo, NY 14202

13. City of Buffalo, Mayor's Office
    65 Niagara Square
    Room 201
    Buffalo, NY 14202

14. City of Buffalo, Office of Strategic Planning
    Attn: Brendan R. Mehaffy, Executive Director
    920 City Hall
    65 Niagara Square
    Buffalo, NY 14202

15. City of Lackawanna
    Attn: Annette Iafallo, Mayor
    714 Ridge Road
    Lackawanna, New York 14218

16. Dormitory Authority of the State of New York, Office of Environmental Affairs
    Attn: Sara E. Stein, AICP, LEED-AP, Senior Environmental Manager
    515 Broadway
    Albany, NY 12207

Exhibit G

TRAFFIC IMPACT REPORT

May 23, 2024

20243850.0001

BUFFALO AND ERIE COUNTY BOTANICAL GARDENS EXPANSION

CITY OF BUFFALO, NY

PREPARED FOR:
Buffalo and Erie County Botanical Gardens
Attn: Mr. Mark Mortenson
2655 South Park Ave
Buffalo, NY 14218

242 West Main Street, Suite 100 | Rochester, NY 14614 | 585.325.1000 | www.passero.com

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engineering architecture

TABLE OF CONTENTS

APPENDICES

1.0 EXECUTIVE SUMMARY

The purpose of this report is to evaluate the potential traffic impacts related to the proposed Buffalo and Erie County Botanical Gardens Expansion. Within this report, the operating characteristics of the proposed access point and impacts to the adjacent roadway network are evaluated and mitigating measures are identified (if needed) to minimize operational concerns. To define traffic impact, this analysis establishes existing baseline traffic conditions, projects background traffic flow including area growth, and determines the traffic operations that would result from the proposed project.

Project Location and Description

The project site is located at 2655 South Park Ave, City of Buffalo, NY. The site is bounded by South Park Avenue to the east, commercial and residential lands to the south, and South Park to the north and west. The project site is developed with the existing Buffalo and Erie County Botanical Garden located at the east of the site. Land uses within the vicinity of the project site are generally commercial, institutional, and agricultural.

The proposed Buffalo and Erie County Botanical Garden Expansion consists of constructing an employee and event parking lot, a ±16,500 SF addition to the existing conservatory and renovation of the existing ±14,495 SF building. Access to the site will be provided by the existing roadway and driveways along Park Dr; additionally the section of Park Dr between the new parking lot driveway and the southern traffic circle will be converted from one-way to two-way traffic flow to provide direct access to the new parking lot. Parking will be provided in the existing parking lot as well as the proposed employee and event lot. The overall site plan is provided at the end of this report.

Existing Conditions

Turning movement traffic counts were collected by Passero Associates on Thursday, May 2nd, 2024, at the study intersections for the weekday PM peak hour period and on Saturday, May 4th, 2024, at the study intersections for the Saturday midday (SAT) peak hour period. Traffic counts were conducted between 3:00-7:00 PM for the weekday PM peak period and 11:00 AM-2:00 PM for the SAT peak period. The peak hour traffic periods generally occurred between 4:15-5:15 PM and 1:00-2:00 PM.

Background Conditions

Background traffic volumes represent the traffic conditions during the proposed build year without development of the project. Construction of the proposed project is anticipated to reach full build-out within two years. The widely accepted methodology for preparing traffic impact studies requires that any projects in the study area that are currently approved and/or under construction must be considered in the traffic analysis. Since this project is solely on private property, there are no other projects that affect the traffic volumes. No significant growth in traffic volumes is anticipated prior to completion of the expansion and renovation of the buildings on site.

Conclusions and Recommendations

This Traffic Impact Study identified and evaluated the potential traffic impacts that can be expected from the proposed new building and renovation located at the existing Buffalo and Erie County Botanical Garden. The results of this study determined that the existing transportation network can adequately accommodate the projected traffic volumes and resulting minor impacts to study area. The following sets forth the conclusions and recommendations based upon the results of the analyses:

Conclusions

1. The proposed project is expected to generate approximately 10 entering/16 exiting vehicle trips during the PM peak hour and 53 entering/28 exiting vehicle trips during the SAT peak hour.

2. Converting the southerly segment of Park Rd to two-way traffic will not have a significant impact on operating conditions at the Park Rd/Southerly Roundabout intersection.

3. The detailed analysis contained in this Traffic Impact Study demonstrates the proposed project will not result in any potentially significant adverse environmental impacts for the purpose of the environmental review of the project pursuant to the State Environmental Quality Review Act ("SEQRA").

Recommendations

4. The southerly segment of Park Road should be converted to permit two-way vehicular traffic flow. Accommodations for pedestrian and bicycle traffic should be prioritized.

5. The existing southerly roundabout at Park Rd should be improved to better define vehicle movements via new pavement markings and signage.

2.0 INTRODUCTION

2.1 Study Purpose and Objectives

The purpose of this report is to evaluate the potential traffic impacts related to the proposed Buffalo and Erie County Botanical Gardens Expansion. Within this report, the operating characteristics of the proposed access point and impacts to the adjacent roadway network are evaluated and mitigating measures are identified (if needed) to minimize operational concerns. To define traffic impact, this analysis establishes existing baseline traffic conditions and determines the traffic operations that would result from the proposed project. All supporting calculations are included in the Appendices of this report.

2.2 Project Location

The project site is located at 2655 South Park Ave in the City of Buffalo, NY. The site is bounded by South Park Avenue to the east, commercial and residential lands to the south, and South Park to the north and west. The project site is developed with the existing Buffalo and Erie County Botanical Garden located at the east of the site. Land uses within the vicinity of the project site are generally commercial, institutional, and agricultural.

2.3 Study Area

To ensure a comprehensive analysis of potential traffic impacts, a study area was selected consisting of the following five (5) intersections:

1. Park Dr/Botanical Gardens South Driveway (unsignalized)
2. Park Dr/Southerly Circle (roundabout)
3. Park Dr/Botanical Gardens south parking lot driveway (unsignalized)
4. Park Dr/ Botanical Gardens north parking lot driveway (unsignalized)
5. Park Dr/ Northerly Circle (roundabout)

3.0 TRANSPORTATION SETTING

3.1 Description of Study Area Roadways

The information outlined in **Table 1** provides a description of the existing roadway network within the study area. **Figure 2** illustrates the lane geometry and traffic controls at each of the study intersections and the Annual ADT (AADT) volumes on the study roadways. The AADTs, in vehicles per day (vpd), reflect the most recently collected data obtained from the NYSDOT.

Functional classification of roadways is determined by the NYSDOT and the Federal Highway Administration (FHWA). Both the NYSDOT and FHWA groups roads, streets, and highways into different classes based on how they are used. This is called functional classification. Roads and streets do not work alone to move traffic. Instead, they form a network. Functional classification defines how each road or street fits into this network, how it provides access to nearby properties, and whether it is in an urban or rural area.

In the study area, all the roadways are classified as rural. The primary functional classifications within the study area:

- Urban Local (Class 19)

Table 1: *Existing Highway System*

ROADWAY	CLASS[1]	AGENCY[2]	SPEED LIMIT	TYPICAL CROSS SECTION[3]	AADT
Park Dr	19	City of Buffalo	15 mph	One-Way	944 NYSDOT (2018)

Notes:
1. Functional Classification.
2. Roadway ownership.
3. Excludes turning lanes at intersections.

3.2 Description of Multimodal Network

The following summarizes the traffic controls, pedestrian, bicycle, and transit accommodations for the study area intersections. **Figure 2** also illustrates the turn lane lengths and traffic controls at the study intersections.

Table 2: *Multimodal Network*

INTERSECTION	Park Rd/ Botanical Gardens south driveway	Park Dr/ Southerly Circle	Park Dr/ Botanical Gardens South parking lot driveway	Park Dr/ Botanical Gardens North parking lot driveway	Park Dr/ Northerly Circle
Intersection Control Type	Unsignalized	Roundabout	Unsignalized	Unsignalized	Roundabout
Sidewalks	◉	◉	◉	◉	○
Crosswalks	○	○	○	○	○
Curb Ramps	○	◉	○	○	○
Pedestrian Signal	N/A	N/A	N/A	N/A	N/A
Pedestrian Push Button	N/A	N/A	N/A	N/A	N/A
Pedestrian Countdown	N/A	N/A	N/A	N/A	N/A
Bicycle Facilities	●	●	◉	◉	◉
Street Lighting	●	●	●	●	●
Transit Route	N/A	N/A	N/A	N/A	N/A

● Present at entire intersection
◉ Present at portion of intersection
○ Not present at intersection

3.3 Planned/Programmed Highway Improvements

There are no planned/programmed highway improvement projects in the study area.

4.0 EXISTING CONDITIONS ANALYSIS

4.1 Peak Intervals for Analysis

Given the functional characteristics of the corridors, adjacent land uses, and the proposed land use for the project site, the peak hours selected for analysis are the weekday PM and Saturday midday peak periods. The combination of site traffic and adjacent through traffic produces the greatest demand during these time periods.

4.2 Existing Traffic Volume Data

Turning movement traffic counts were collected by Passero Associates on Thursday, May 2nd, 2024, at the study intersections for the weekday PM peak hour period and on Saturday, May 4th, 2024, at the study intersections for the Saturday midday (SAT) peak hour period. Traffic counts were conducted between 3:00-7:00 PM for the weekday PM peak period and 11:00 AM-2:00 PM for the SAT peak period. The peak hour traffic periods generally occurred between 4:15-5:15 PM and 1:00-2:00 PM. The existing peak hour traffic volumes are shown in **Figure 3A**.

All turning movement count data was collected on a typical weekday while local schools were in session. No adverse weather conditions impacted the traffic counts. The traffic volumes were reviewed for seasonality and to confirm the accuracy and relative balance of the collective traffic counts. The actual differences in traffic volumes can be attributed to temporal variations in traffic volumes as well as activity related to on-street parking located in the segments between the study intersections.

Pedestrian volumes were also documented during the study time periods. The peak hour pedestrian volumes are shown in **Figures 3B and 3C**.

4.3 Field Observations

The study intersections were observed during peak intervals to assess current traffic operations. This information was used to support and/or calibrate capacity analysis models described in detail later in this report.

5.0 BACKGROUND (NO BUILD) CONDITIONS

Background traffic volumes represent the traffic conditions during the proposed build year without development of the project. Construction of the proposed project is anticipated to reach full build-out within two years. The widely accepted methodology for preparing traffic impact studies requires that any projects in the study area that are currently approved and/or under construction must be considered in the traffic analysis. Since this project is solely on private property, there are no other projects that affect the traffic volumes on Park Rd. No significant growth in traffic volumes is anticipated prior to completion of the expansion and renovation of the buildings on site.

6.0 PROPOSED DEVELOPMENT CONDITIONS

6.1 Project Description

The proposed Buffalo and Erie County Botanical Garden Expansion consists of constructing an employee and event parking lot, a ±16,500 SF addition to the existing conservatory and renovation of the existing ±14,495 SF building. Access to the site will be provided by the existing roadway and driveways along Park Dr; additionally the section of Park Dr between the new parking lot driveway and the southern traffic circle will be converted from one-way to two-way traffic flow to provide direct access to the new parking lot. Parking will be provided in the existing parking lot as well as the proposed employee and event lot. The overall site plan is provided at the end of this report.

6.2 Proposed Traffic Generation

The volume of traffic generated by a site is dependent on the intended land use and size of the development. Trip generation is an estimate of the number of trips generated by a specific building or land use. These trips represent the volume of traffic entering and exiting the development. *Trip Generation Manual (11th Edition)* published by the Institute of Transportation Engineers (ITE) is used as a reference for this information. The trip rate for the peak hour of the

generator may or may not coincide in time or volume with the trip rate for the peak hour of adjacent street traffic. Volumes generated during the peak hour of the adjacent street traffic and proposed land uses, in this case, the weekday commuter PM and the Saturday midday peak hours, represent a more critical volume when analyzing the capacity of the system; those intervals will provide the basis of this analysis.

According to the ITE, the following steps are recommended when determining trip generation for proposed land uses:

1. *Check for the availability of local trip generation rates for comparable uses.*
2. *If local trip data for similar developments are not available and time and funding permit, conduct trip generation studies at sites with characteristics similar to those of the proposed development.*

Trip generation data for the Buffalo and Erie County Botanical Garden located at 2655 South Park Ave in the City of Buffalo, NY was collected during the weekday PM and SAT peak periods (data collection occurred on Thursday, May 2nd, 2024, and Saturday, May 4th, 2024). This trip generation data was then used to derive trip generation for the proposed Project. **Table 3** shows the estimated site generated trips that will be added to the existing roadway system under full project development.

Table 3: *Site Generated Trips*

DESCRIPTION	PM PEAK HOUR		SAT PEAK HOUR	
	ENTER	EXIT	ENTER	EXIT
Buffalo Botanical Garden (Local Data)	10	16	53	28

Note:
1. LUC = Land Use Code.
2. Traffic associated with the existing nursery plus the expansion are used to determine full build traffic volumes for analysis purposes.

The proposed project is expected to generate approximately 10 entering/16 exiting vehicle trips during the PM peak hour and 53 entering/28 exiting vehicle trips during the SAT peak hour.

6.3 Trip Distribution

The cumulative effect of site-generated traffic on the transportation network is dependent on the origins and destinations of that traffic and the location of the access drives serving the site. It is assumed that all of the newly generated traffic will travel directly to and from the new parking lot. Therefore, all traffic will enter and exit from the intersection at South Park Ave and utilize the new two-way section of Park Dr.

Figure 4 shows the anticipated trip distribution pattern percentage for the project site. **Figure 5** shows the total site generated trips based on the distribution patterns. It is noted that figure 5 includes the existing Buffalo Botanical Garden traffic redistributed.

6.4 Full Development Volumes

The proposed design hour traffic volumes are developed for the peak hours by combining the existing traffic conditions (**Figure 3B**) and the new site-generated traffic volumes (**Figure 5**) to yield the traffic volumes under full development conditions. **Figure 6** illustrates the full build traffic conditions.

7.0 TRAFFIC OPERATIONS AND ANALYSIS

7.1 Description of Capacity Analysis

Capacity analysis is a technique used for determining a measure of effectiveness for a section of roadway and/or intersection based on the number of vehicles during a specific time period. The measure of effectiveness used for the capacity analysis is referred to as a Level of Service (LOS). Levels of service are calculated to provide an indication of the amount of delay that a motorist experiences while traveling along a roadway or through an intersection. Since the most amount of delay to motorists usually occurs at intersections, capacity analysis focuses on intersections, as opposed to highway segments.

The standard procedure for capacity analysis of signalized and unsignalized intersections is outlined in the *Highway Capacity Manual (HCM) 7th Edition* published by the TRB. Traffic analysis software, Synchro 12, which is based on procedures and methodologies contained in the HCM, was used to analyze operating conditions at study area intersections. The procedure yields a level of service based on the HCM as an indicator of how well intersections operate. However, given that the southerly intersection is a roundabout, Sidra Intersection software was used for this analysis.

Six levels of service are defined for analysis purposes. They are assigned letter designations, from "A" to "F", with LOS "A" representing the conditions with little to no delay, and LOS "F" conditions with very long delays. LOS "C" or better is desirable, but LOS "D" for signalized locations and LOS "E" for unsignalized locations are generally thresholds of acceptable operation during peak periods so long as the volume to capacity ratio (v/c) is below 1.0. **Table 4** depicts level of service criteria for both signalized and unsignalized intersections.

Table 4: *Level of Service Criteria*

LEVEL OF SERVICE	SIGNALIZED CONTROL DELAY PER VEHICLE (seconds)	STOP CONTROL DELAY PER VEHICLE (seconds)
A	< 10	< 10
B	10 – 20	10 – 15
C	20 – 35	15 – 25
D	35 – 55	25 – 35
E	55 – 80	35 – 50
F	> 80	> 50

LOS for signalized intersections is defined in terms of delay specifically, average total delay per vehicle for a 15-minute analysis period. LOS for unsignalized intersections, however, are different from a signalized intersection. The primary reason for this is driver expectation that a signalized intersection is designed to carry higher volumes than an unsignalized intersection. Unsignalized intersections are also associated with more uncertainty for users, as delays are less predictable than they are at signals.

The v/c ratio, also referred to as degree of saturation, represents the sufficiency of an intersection to accommodate the vehicular demand. A v/c ratio less than 0.85 generally indicates that adequate capacity is available, and vehicles are not expected to experience significant queues and delays. As the v/c ratio approaches 1.0, traffic flow may become unstable, and delay and queuing conditions may occur.

7.2 Capacity Analysis Results

Existing operating conditions during the peak study periods are evaluated to determine a basis for comparison with the projected future conditions. Future traffic conditions generated by the project are analyzed to assess the operation of the study area intersections. **Table 5** describes the capacity results for existing and full development conditions. The discussion following the table summarizes capacity conditions. It is noted that only the southerly roundabout intersection is analyzed for capacity conditions since the other intersections are all one-way with no opposing traffic.

Table 5: *Capacity Analysis Results*

Intersection	2024 Existing Conditions				2027 Future Conditions			
	PM		SAT		PM		SAT	
1. South Roundabout (R)								
NB Thru - Park Dr	A	1.2	A	1.2	A	1.2	A	1.2
NB Right - Park Dr	A	3.7	A	3.7	A	3.7	A	3.7
WB Left - Park Dr Entrance	A	0.0	A	0.0	A	9.9	A	9.9
WB Right - Park Dr Entrance	A	3.7	A	3.7	A	3.7	A	3.7
Overall LOS	**A**	**3.6**	**A**	**3.7**	**A**	**5.6**	**A**	**6.3**

A(2.8) = Level of Service (Delay in seconds per vehicle)
(S) = Signalized; (U) = Unsignalized
NB = Northbound, SB = Southbound, EB = Eastbound, WB = Westbound
N/A = Approach does not exist and/or was not analyzed during this condition
Green shaded cells indicate low delays, yellow shaded cells indicate moderate delays, red shaded cells indicate long delays.

1. South Roundabout

All approaches operate at LOS A existing and projected full build conditions during both peak hours. Converting the southerly segment of Park Rd to two-way traffic will not have a significant impact on operating conditions at this intersection.

7.3 Proposed Roadway Improvements

The segment of Park Rd between the southerly roundabout and the new parking lot will be converted from one-way eastbound/northbound to a two-way roadway with associated pedestrian and bicycle amenities. The existing roadway segment consists of a ±36 ft wide pavement section that includes a ±28 ft wide shared travel lane for vehicles and bicycles and a ±8 ft wide shoulder area for pedestrians that is delineated with a double white line between the travel lane and the shoulder area. There is also a ±5 ft wide sidewalk along the southerly side of the roadway within this segment.

The ultimate design of the roadway/pedestrian amenities is yet to be determined. The final design will be focused on providing space to accommodate safe pedestrian and bicycle travel. Three preliminary design alternatives are included at the end of this report.

Appropriate pavement markings and signage will be provided to positively direct vehicles, bicyclists, and pedestrians.

8.0 CONCLUSIONS AND RECOMMENDATIONS

This Traffic Impact Study identified and evaluated the potential traffic impacts that can be expected from the proposed new building and renovation located at the existing Buffalo and Erie County Botanical Garden. The results of this study determined that the existing transportation network can adequately accommodate the projected traffic volumes and resulting minor impacts to study area. The following sets forth the conclusions and recommendations based upon the results of the analyses:

Conclusions

1. The proposed project is expected to generate approximately 10 entering/16 exiting vehicle trips during the PM peak hour and 53 entering/28 exiting vehicle trips during the SAT peak hour.

2. Converting the southerly segment of Park Rd to two-way traffic will not have a significant impact on operating conditions at the Park Rd/Southerly Roundabout intersection.

3. The detailed analysis contained in this Traffic Impact Study demonstrates the proposed project will not result in any potentially significant adverse environmental impacts for the purpose of the environmental review of the project pursuant to the State Environmental Quality Review Act ("SEQRA").

Recommendations

4. The southerly segment of Park Road should be converted to permit two-way vehicular traffic flow. Accommodations for pedestrian and bicycle traffic should be prioritized.

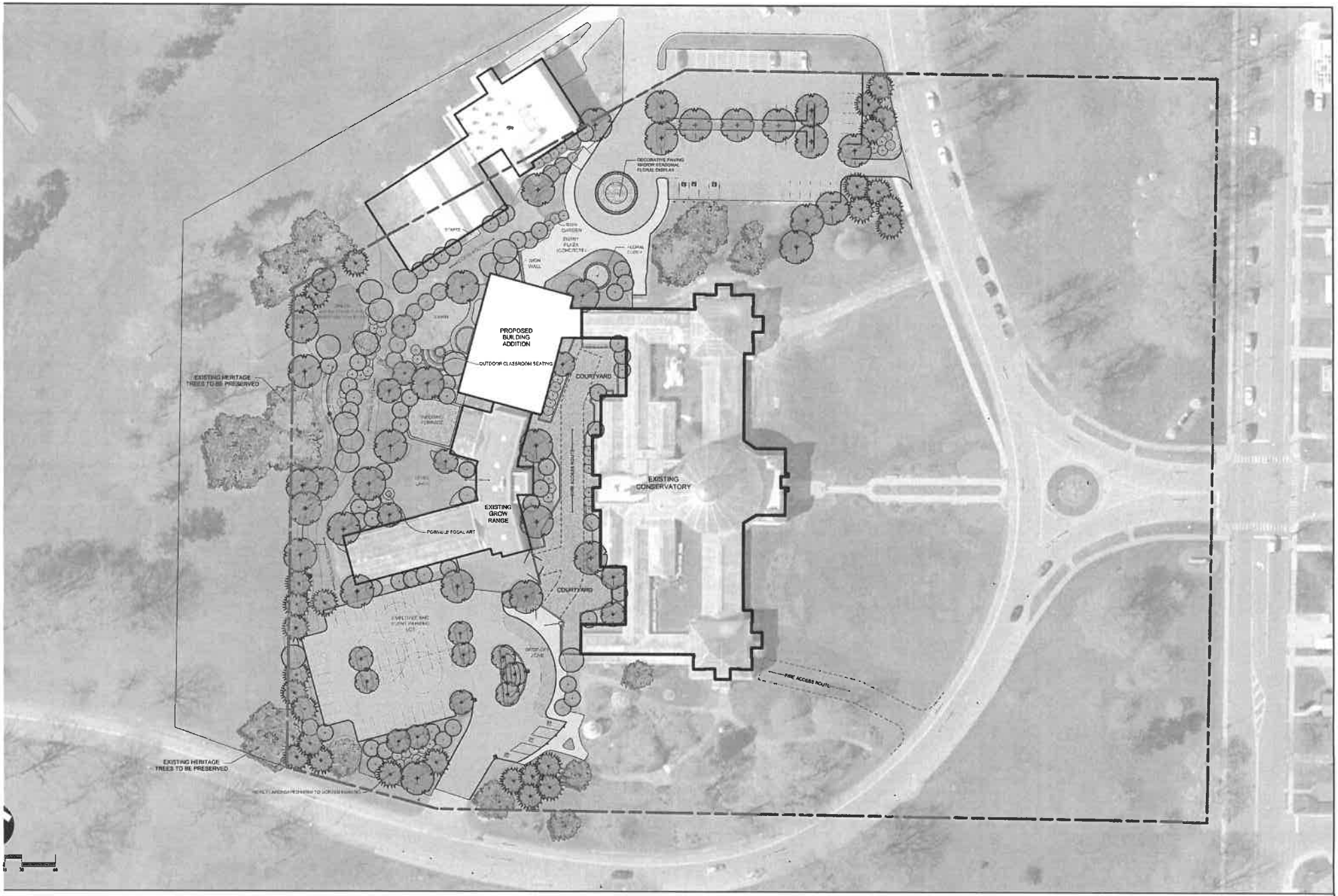
5. The existing southerly roundabout at Park Rd should be improved to better define vehicle movements via new pavement markings and signage.

9.0 REFERENCES

- Highway Capacity Manual (7th Edition). Transportation Research Board (TRB). Washington, DC. 2022.
- Trip Generation Manual (11th Edition). Institute of Transportation Engineers (ITE). Washington, DC. 2021.
- Traffic Data Viewer. New York State Department of Transportation (NYSDOT). 2023.
- Manual on Uniform Traffic Control Devices (MUTCD). Federal Highway Administration. 2009.
- Highway Functional Classification Concepts, Criteria, and Procedures. FHWA. 2013.
- A Policy on Geometric Design of Highways and Streets (7th Edition). The American Association of State Highway and Transportation Officials (AASHTO). 2018.

10.0 FIGURES

Figures 1 through 6 are included on the following pages.



FALO AND ERIE COUNTY BOTANICAL GARDENS | BUFFALO, NY

·2024 | PN: 605802

BOTANICAL GARDENS

wendel

Figure 1

PASSERO
engineering architecture

Buffalo abd Erie County Botanical Gardens Expansion |
City of Buffalo, NY

0 200 400 800 Feet

N

Site Location and Study Area

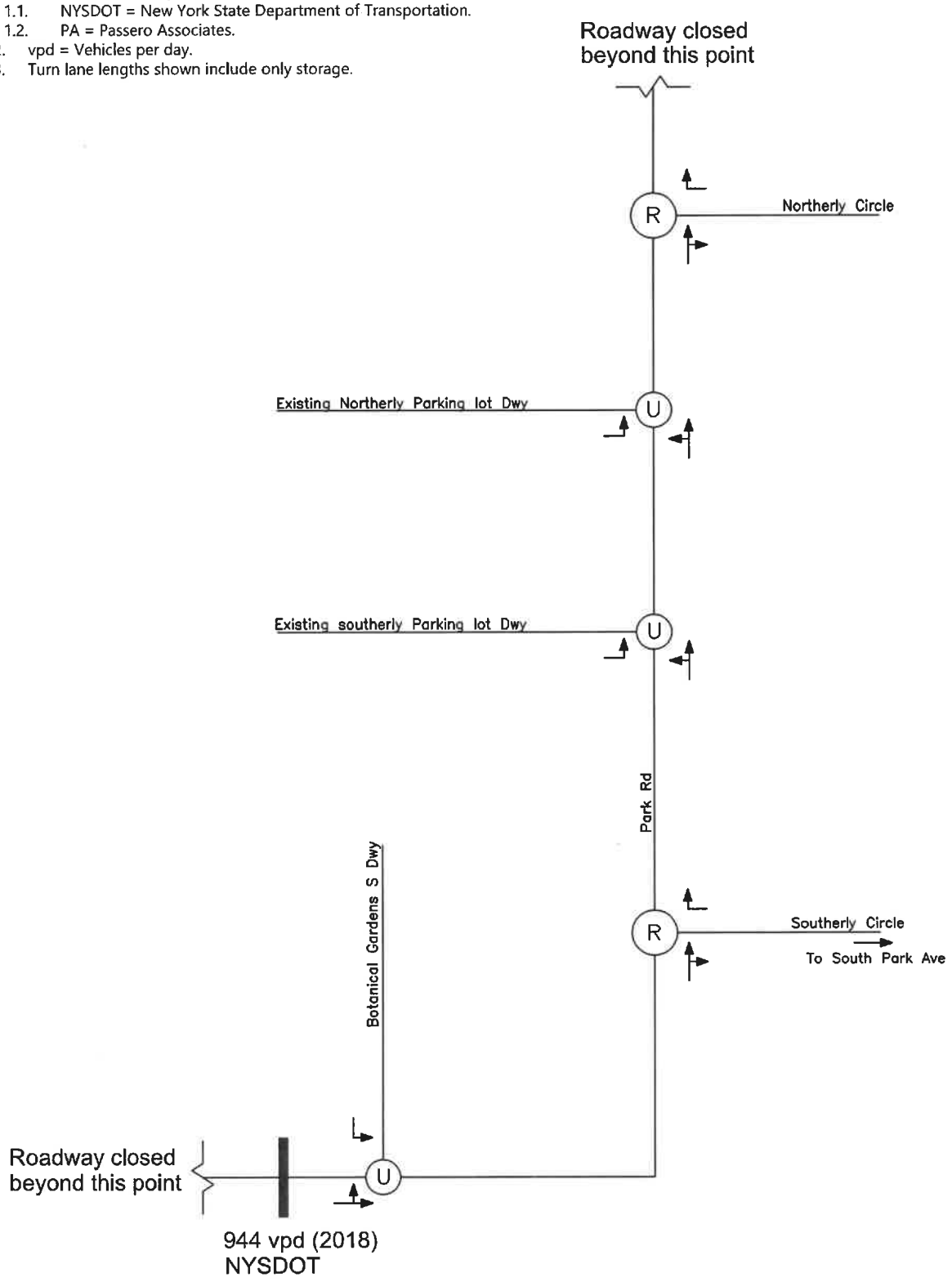
Key:
- # Study Intersection
- # Study/Proposed Intersection
- Study Area

Project Number: 20243850.0001

Figure 2

PASSERO
engineering architecture

Notes:
1. All AADT volumes by those noted:
   1.1. NYSDOT = New York State Department of Transportation.
   1.2. PA = Passero Associates.
2. vpd = Vehicles per day.
3. Turn lane lengths shown include only storage.



Buffalo and Erie County Botanical Gardens Expansion, City of Buffalo, NY

N
NOT TO SCALE

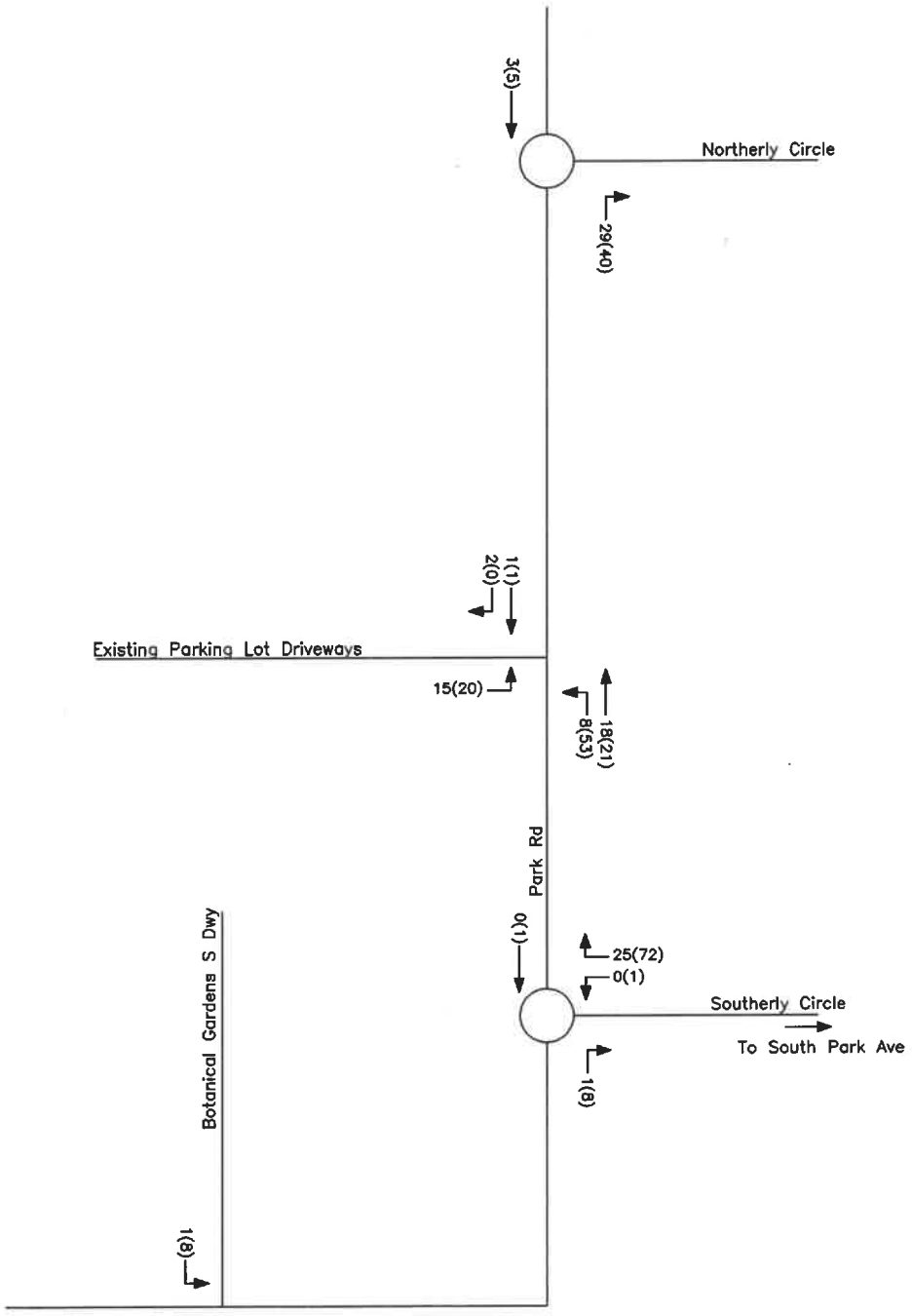
Lane Geometry and Average Daily Traffic

KEY:
U = Unsignalized
S = Signalized

Project Number: 20243791.0001

Figure 3A

PASSERO
engineering architecture



N
NOT TO SCALE

Buffalo and Erie County Botanical Gardens Expansion, City of Buffalo, NY

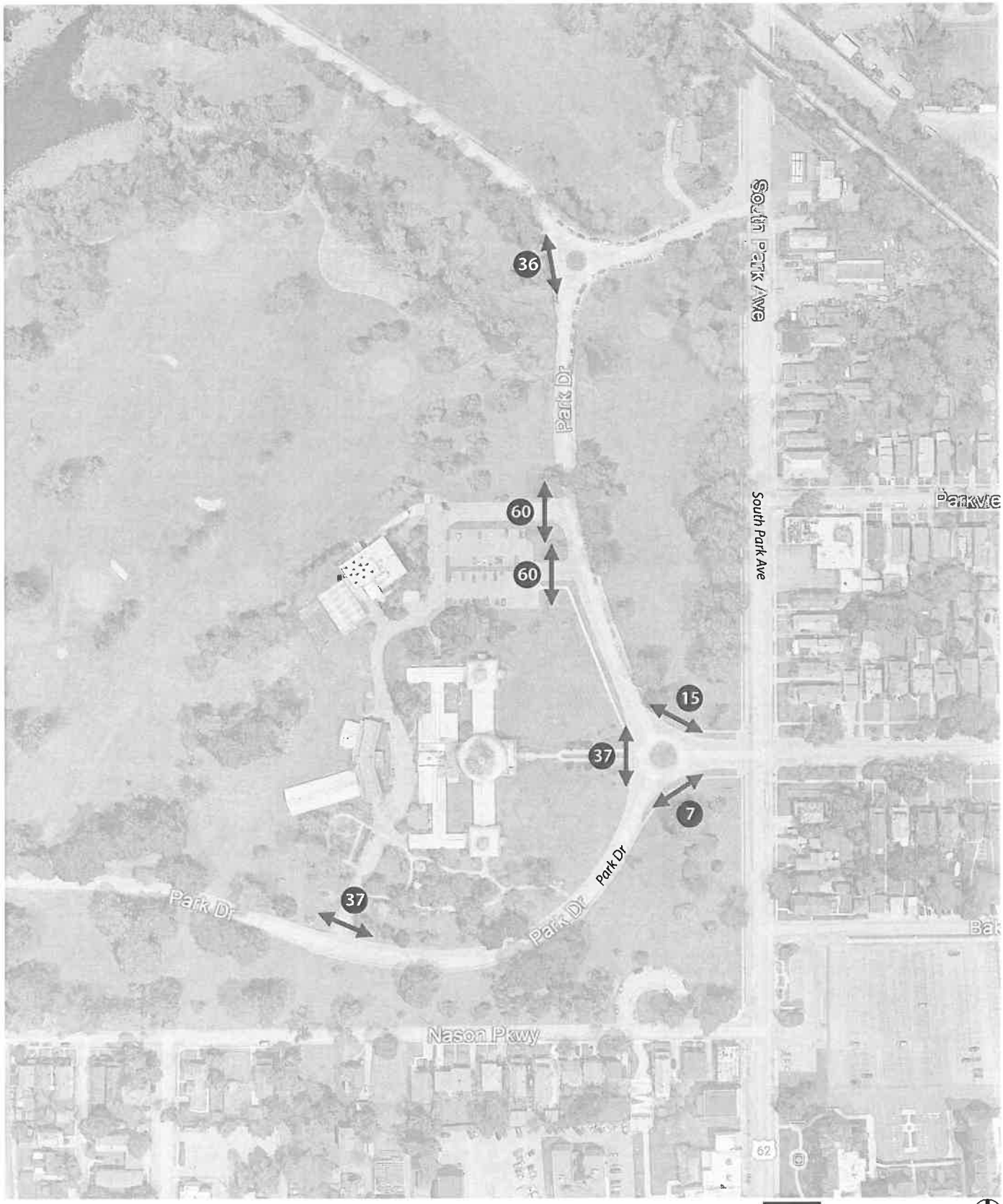
Peak Hour Volumes
2024 Existing Conditions

KEY:
00(00) = PM(SAT)

Project Number: 20243791.0001

Figure 3B

PASSERO
engineering architecture



Buffalo and Erie County Botanical Gardens Expansion | City of Buffalo, NY

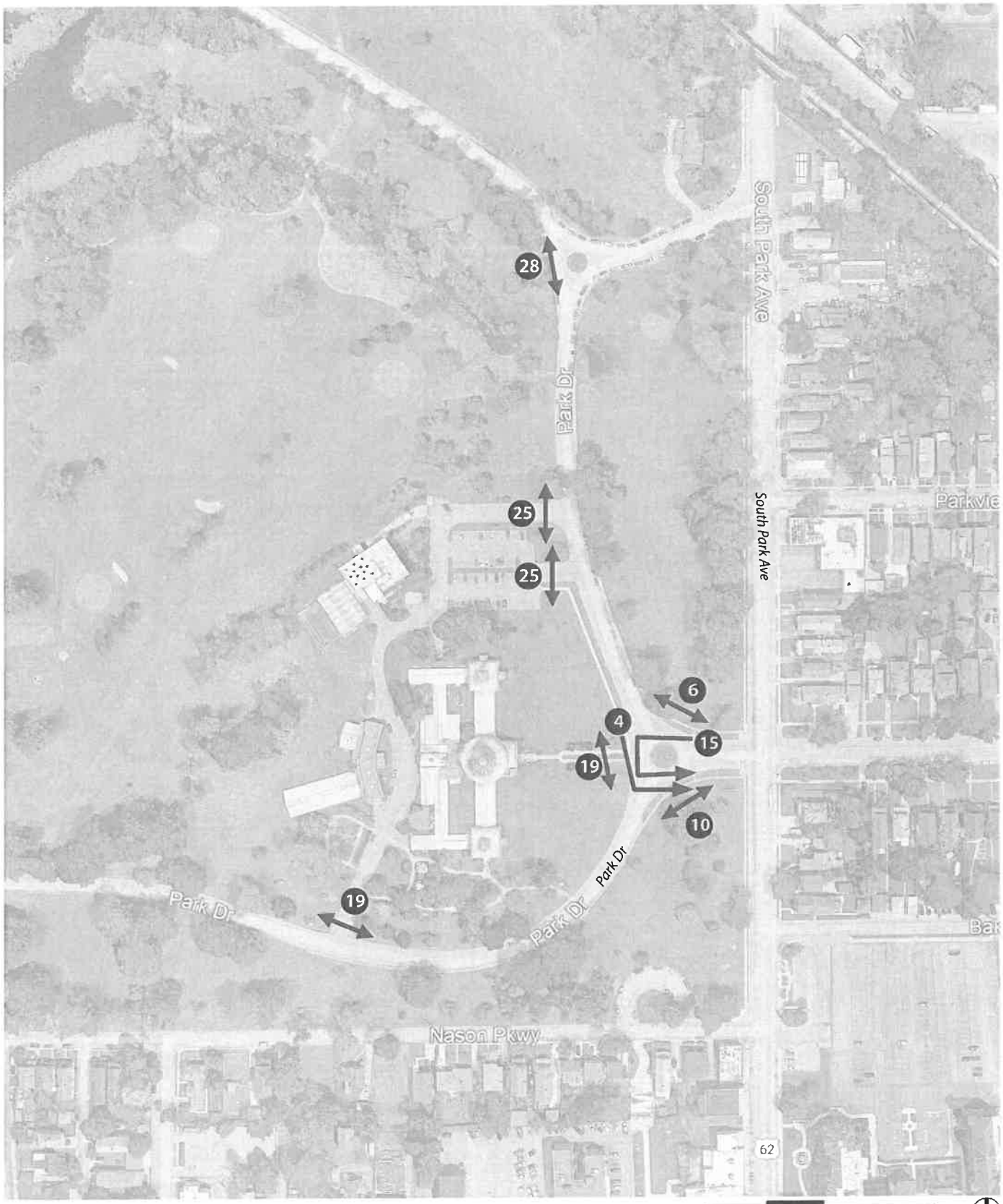
Existing Pedestrian Volumes - PM Peak Hour
(5:15-6:15 PM)

Key:
Peak Hour Pedestrian Volume
Pedestrian Direction

Project Number: 20243850.0001

Figure 3C

PASSERO
engineering architecture



Buffalo and Erie County Botanical Gardens Expansion | City of Buffalo, NY

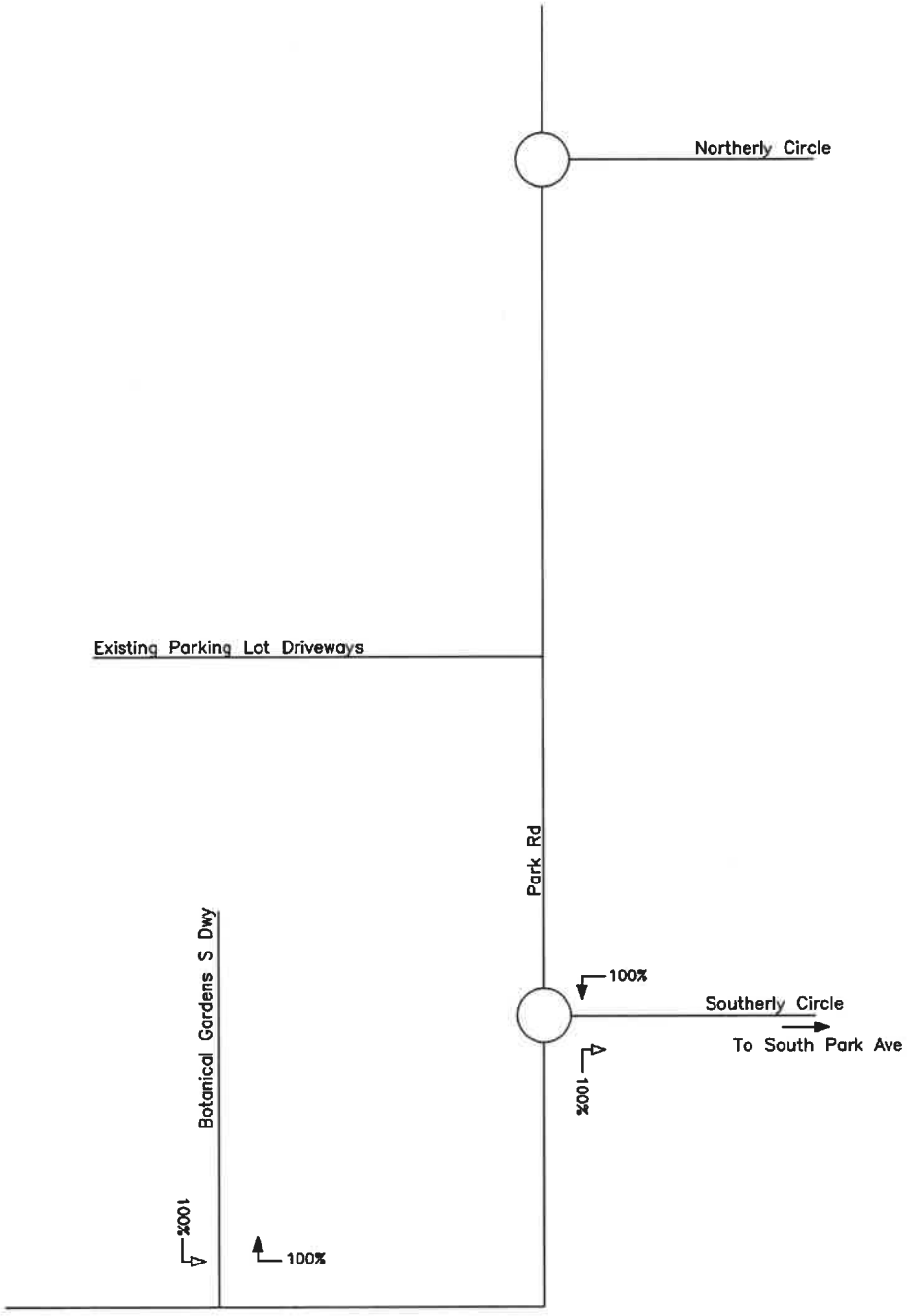
Existing Pedestrian Volumes - SAT Peak Hour
(1:00-2:00 PM)

Key:
Peak Hour Pedestrian Volume
Pedestrian Direction

Project Number: 20243850.0001

Figure 4

PASSERO
engineering architecture



Buffalo and Erie County Botanical Gardens Expansion, City of Buffalo, NY

N
NOT TO SCALE

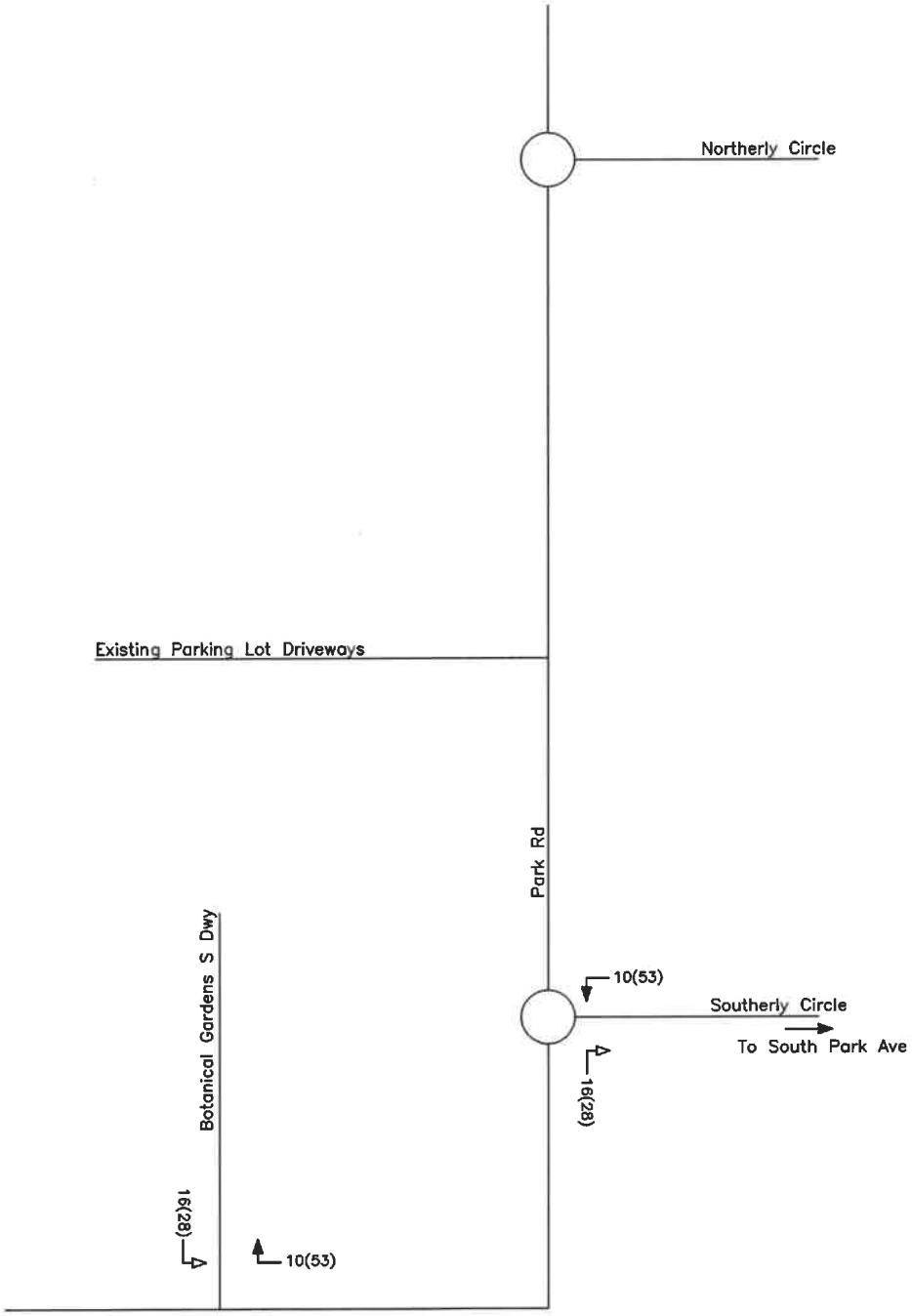
Trip Distribution

KEY:
00(00) = PM(SAT)
→ Entering Trip
→ Exiting Trip

Project Number: 20243791.0001

Figure 5

PASSERO
engineering architecture



Buffalo and Erie County Botanical Gardens Expansion, City of Buffalo, NY

N
NOT TO SCALE

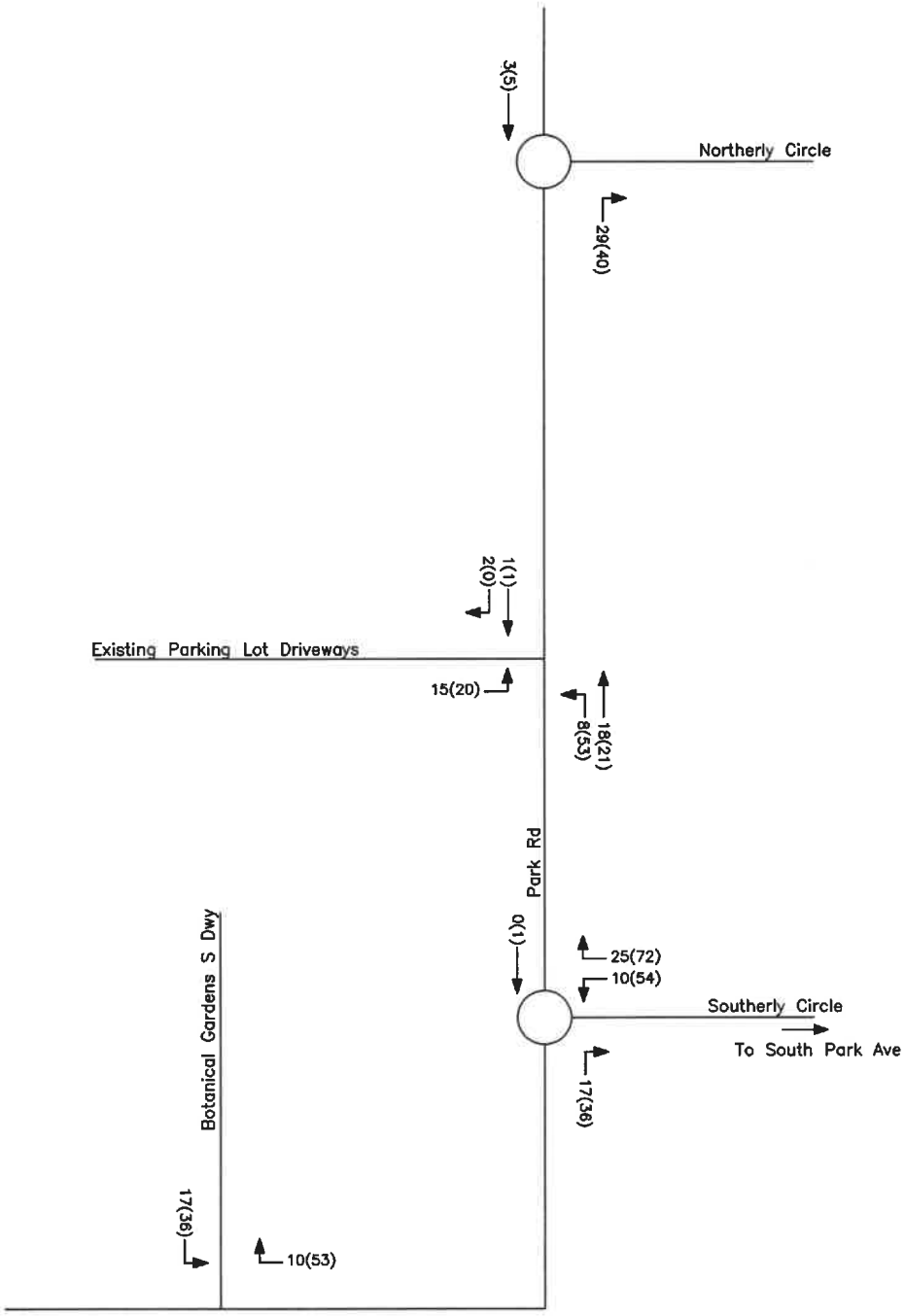
Site Generated Trips

KEY:
00(00) = PM(SAT)
→ Entering Trip
→ Exiting Trip

Project Number: 20243791.0001

Figure 6

PASSERO
engineering architecture



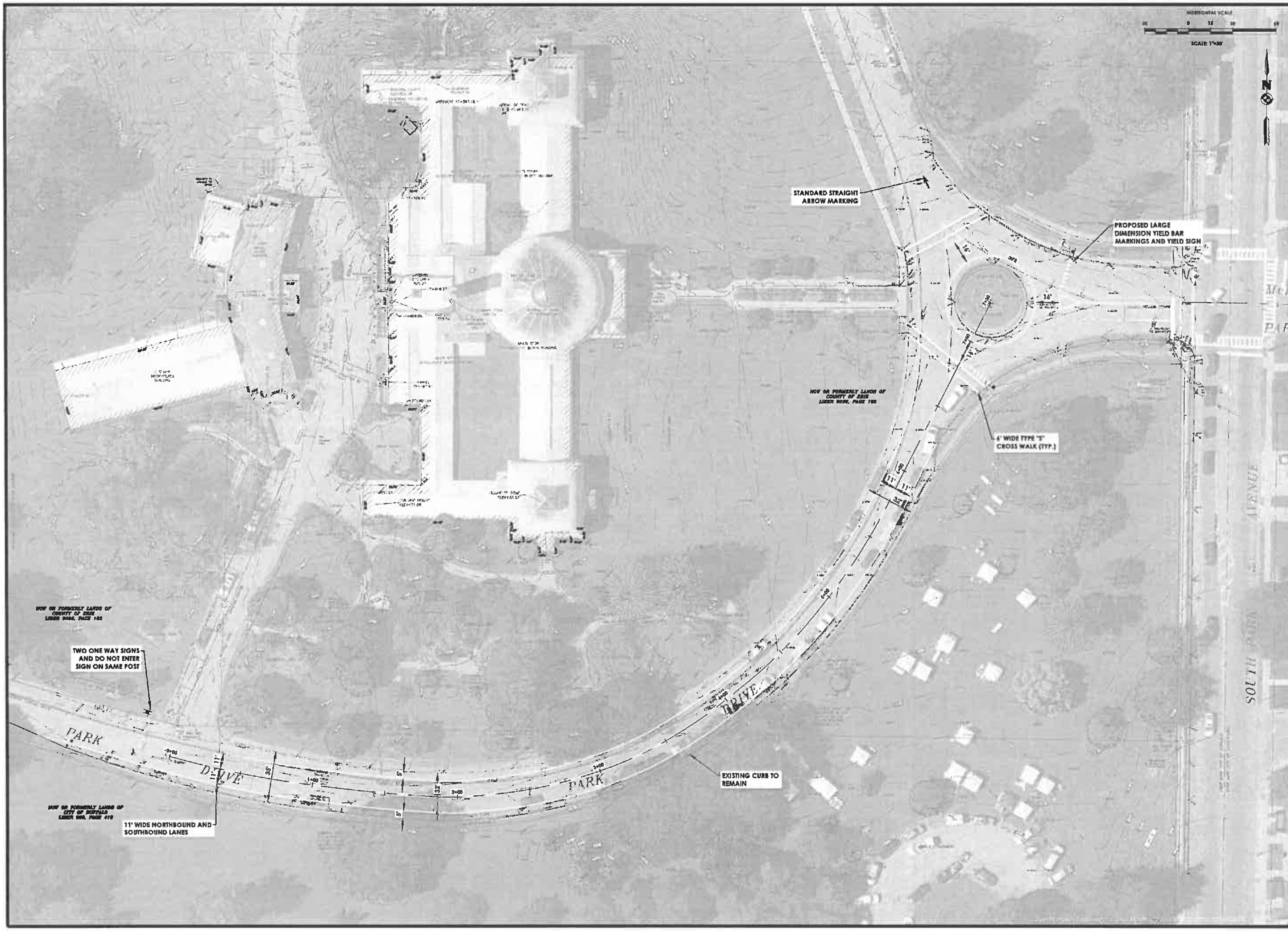
Buffalo and Erie County Botanical Gardens Expansion, City of Buffalo, NY

N
NOT TO SCALE

Peak Hour Volumes
Full Build Conditions

KEY:
00(00) = PM(SAT)

Project Number: 20243791.0001



PASSI
engineering a

LOCATION
N.T.S.

Client:

PASSERO AS

Principal-in-Charge
Project Manager
Designed by

No.	Date	By	Revision
1			

UNAUTHORIZED ALTERATIONS OR ADDITIONS ... VIOLATION OF STATE EDUCATION LAW ... ARTICLE 145 SECTION 7307. THESE PLANS ...

BUFFALO BO
GARDENS R

Municipality: TO
County: COUNTY

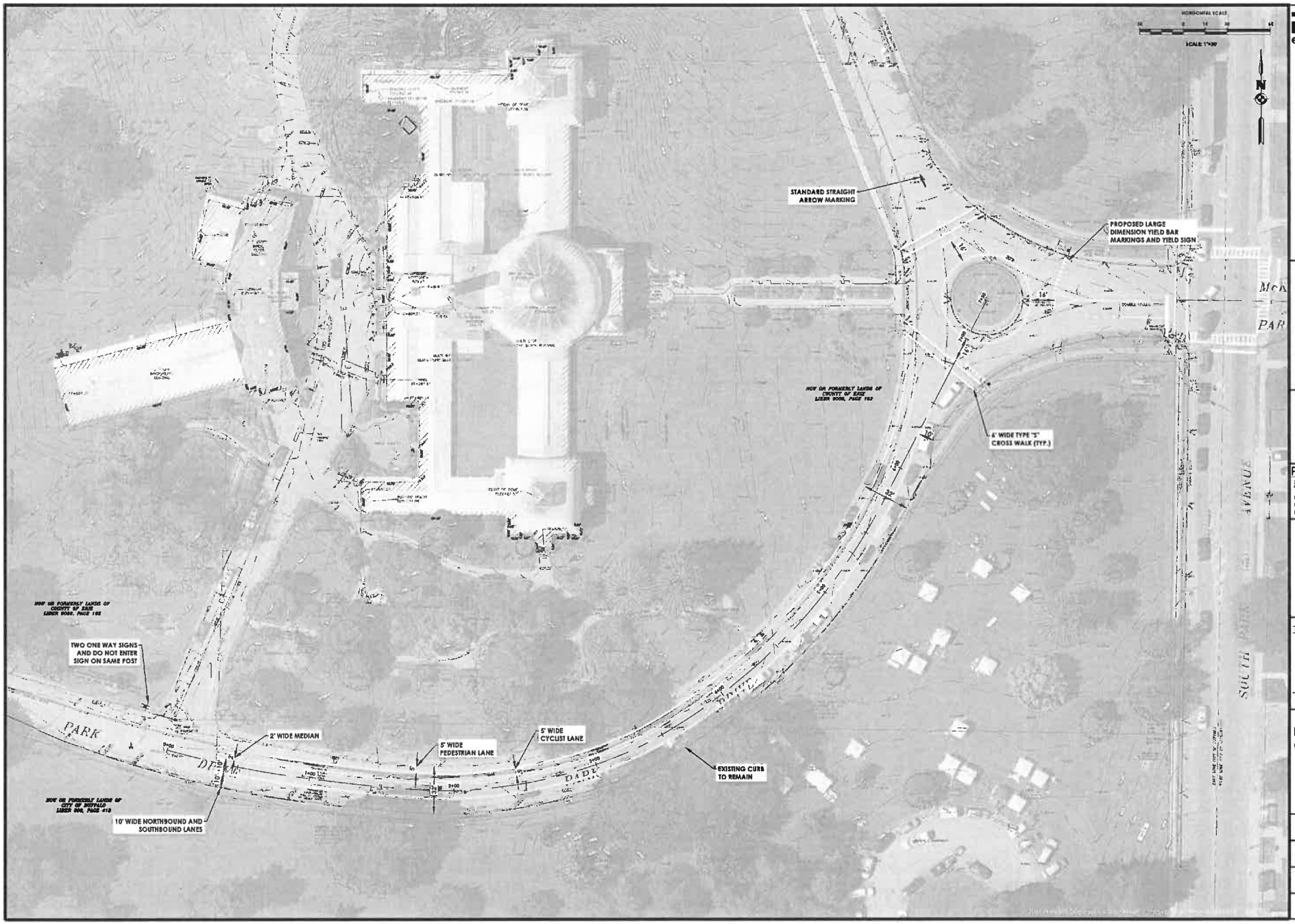
Project No.

Drawing No.
C 00

Scale:
1" = 3

Date

NOT FOR CON



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engineering a

LOCATION S
N.T.S.

Client:

PASSERO ASS

Principal-in-Charge
Project Manager
Designed by

Revision

No.	Date	By
1		

BUFFALO BC
GARDENS R

Municipality: BU
County: COUNTY
Project No.

Drawing No.
C 00

Scale:
1" = 3

Date

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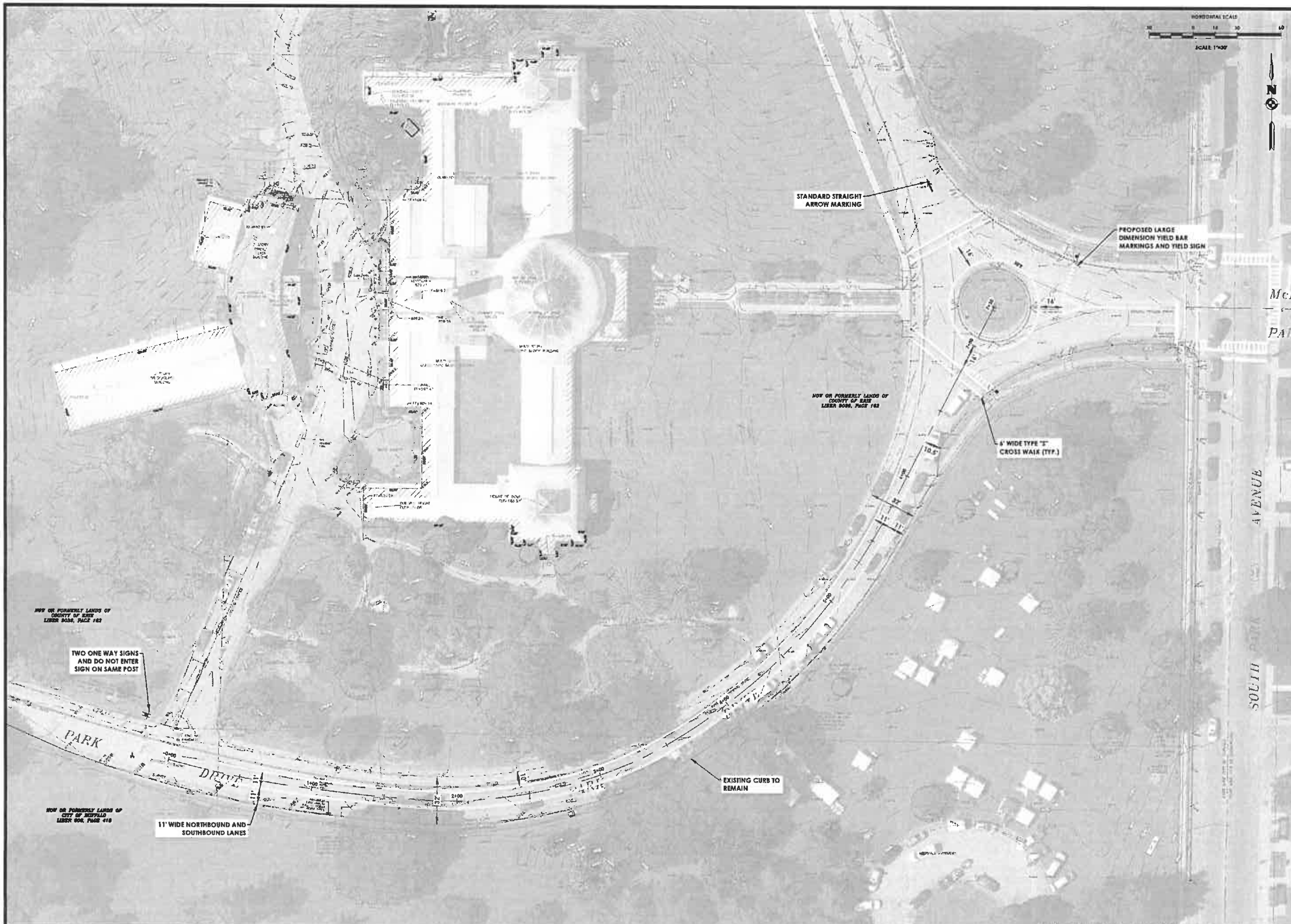

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engineering a

LOCATION
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Client:

PASSERO AS

Principal-in-Charge
Project Manager
Designed by

Revision

No.	Date	By
1		

BUFFALO BO
GARDENS R

Municipality: TO
County: COUNTY
Project No.

Drawing No.
C 00

Scale
1" = 3

Date

NOT FOR CON

APPENDICES

APPENDIX A: EXISTING TRAFFIC COUNT DATA

PASSERO ASSOCIATES

242 W Main St, Suite 100
Rochester, NY 14614

File Name : North Circle PM Peak
Site Code : 11111111
Start Date : 5/2/2024
Page No : 1

Groups Printed- Unshifted - Bank 1

	Park Dr From North					Traffic Circle From East					Park Dr From South					From West					
Start Time	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	Int. Total
03:00 PM	0	0	0	0	0	0	0	0	0	0	0	6	0	0	6	0	1	0	0	1	7
03:15 PM	0	0	0	0	0	0	0	0	0	0	0	8	0	0	8	0	0	0	0	0	8
03:30 PM	0	0	0	0	0	0	0	0	0	0	0	5	0	0	5	0	0	0	0	0	5
03:45 PM	0	1	0	0	1	0	0	0	0	0	0	7	0	6	13	0	0	0	0	0	14
Total	0	1	0	0	1	0	0	0	0	0	0	26	0	6	32	0	1	0	0	1	34
04:00 PM	0	2	0	0	2	0	0	0	0	0	0	7	0	7	14	0	0	0	0	0	16
04:15 PM	0	0	0	0	0	0	0	0	0	0	0	10	0	12	22	0	0	0	0	0	22
04:30 PM	0	1	0	0	1	0	0	0	0	0	0	4	0	9	13	0	0	0	0	0	14
04:45 PM	0	0	0	0	0	0	0	0	0	0	0	5	0	13	18	0	0	0	0	0	18
Total	0	3	0	0	3	0	0	0	0	0	0	26	0	41	67	0	0	0	0	0	70
05:00 PM	0	1	0	0	1	0	0	0	0	0	0	6	0	7	13	0	0	0	0	0	14
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Apprch %	0	100	0	0		0	0	0	0		0	42.7	0	57.3		0	100	0	0		
Total %	0	3.3	0	0	3.3	0	0	0	0	0	0	41.2	0	55.1	96.3	0	0.4	0	0	0.4	
Unshifted	0	6	0	0	6	0	0	0	0	0	0	97	0	134	231	0	1	0	0	1	238
% Unshifted	0	75	0	0	75	0	0	0	0	0	0	97	0	100	98.7	0	100	0	0	100	97.9
Bank 1	0	2	0	0	2	0	0	0	0	0	0	3	0	0	3	0	0	0	0	0	5
% Bank 1	0	25	0	0	25	0	0	0	0	0	0	3	0	0	1.3	0	0	0	0	0	2.1

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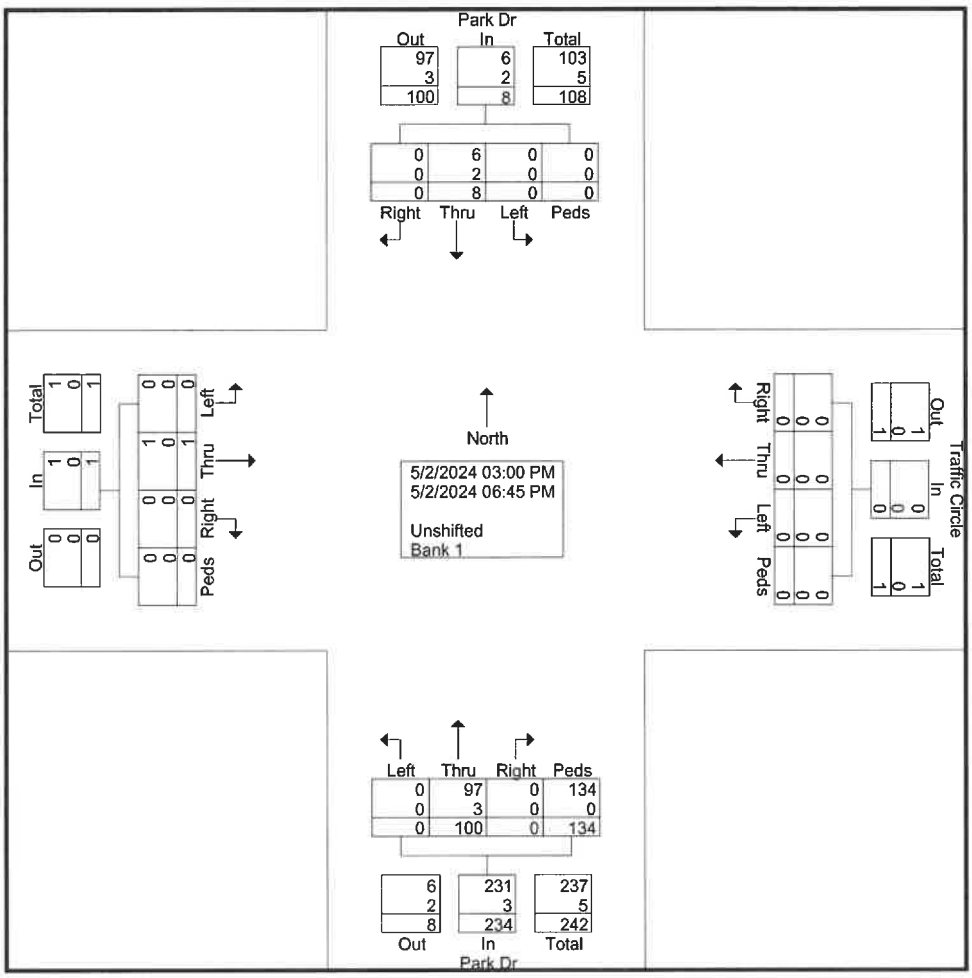
Rochester, NY 14614

File Name : North Circle PM Peak
Site Code : 11111111
Start Date : 5/2/2024
Page No : 2



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File Name : North Circle PM Peak
Site Code : 11111111
Start Date : 5/2/2024
Page No : 3

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Peak Hour Analysis From 05:15 PM to 06:00 PM - Peak 1 of 1																					
Peak Hour for Entire Intersection Begins at 05:15 PM																					
05:15 PM	0	1	0	0	1	0	0	0	0	0	0	**10**	0	**13**	**23**	0	0	0	0	0	**24**
05:30 PM	0	**2**	0	0	**2**	0	0	0	0	0	0	9	0	8	17	0	0	0	0	0	19
05:45 PM	0	0	0	0	0	0	0	0	0	0	0	4	0	3	7	0	0	0	0	0	7
06:00 PM	0	0	0	0	0	0	0	0	0	0	0	6	0	12	18	0	0	0	0	0	18
Total Volume	0	3	0	0	3	0	0	0	0	0	0	29	0	36	65	0	0	0	0	0	68
% App. Total	0	100	0	0		0	0	0	0		0	44.6	0	55.4		0	0	0	0		
PHF	.000	.375	.000	.000	.375	.000	.000	.000	.000	.000	.000	.725	.000	.692	.707	.000	.000	.000	.000	.000	.708
Unshifted	0	3	0	0	3	0	0	0	0	0	0	28	0	36	64	0	0	0	0	0	67
% Unshifted	0	100	0	0	100	0	0	0	0	0	0	96.6	0	100	98.5	0	0	0	0	0	98.5
Bank 1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	1
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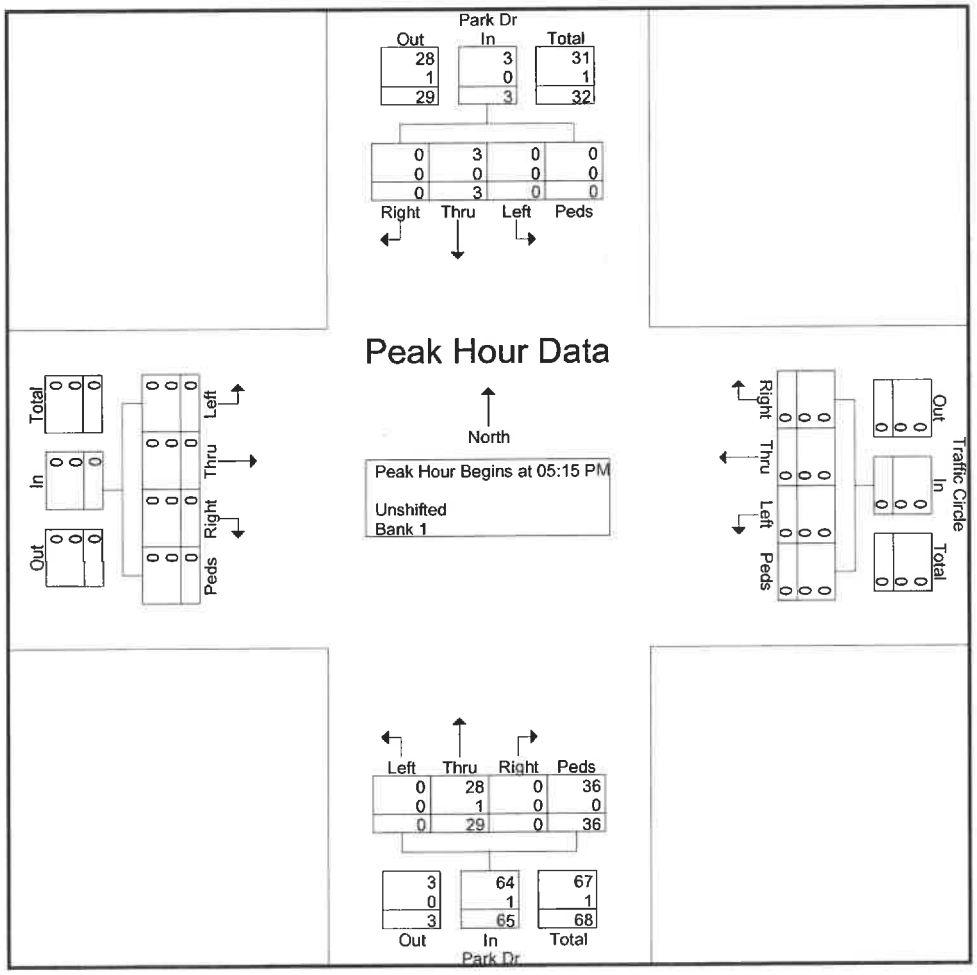

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242 W Main St, Suite 100
Rochester, NY 14614

File Name : North Circle SAT Peak
Site Code : 22222222
Start Date : 5/4/2024
Page No : 1

Groups Printed- Unshifted - Bank 1

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11:00 AM	0	1	1	0	2	0	0	0	0	0	0	4	0	2	6	0	0	0	0	0	8
11:15 AM	0	0	0	0	0	0	0	0	0	0	0	10	0	12	22	0	0	0	0	0	22
11:30 AM	0	0	0	0	0	0	0	0	0	0	0	9	0	5	14	0	0	0	0	0	14
11:45 AM	0	0	0	0	0	0	0	0	0	0	0	3	0	5	8	0	0	0	0	0	8
Total	0	1	1	0	2	0	0	0	0	0	0	26	0	24	50	0	0	0	0	0	52
12:00 PM	0	0	0	0	0	0	0	0	0	0	0	7	0	10	17	0	0	0	0	0	17
12:15 PM	0	0	0	0	0	0	0	0	0	0	0	8	0	10	18	0	0	0	0	0	18
12:30 PM	0	0	0	0	0	0	0	0	0	0	0	22	0	13	35	0	0	0	0	0	35
12:45 PM	0	0	0	0	0	0	0	0	0	0	0	11	0	2	13	0	0	0	0	0	13
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01:00 PM	0	2	0	0	2	0	0	0	0	0	0	11	0	4	15	0	0	0	0	0	17
01:15 PM	0	1	0	0	1	0	0	0	0	0	0	15	0	6	21	0	0	0	0	0	22
01:30 PM	0	2	0	0	2	0	0	0	0	0	0	6	0	11	17	0	0	0	0	0	19
01:45 PM	0	0	0	0	0	0	0	0	0	0	0	8	0	7	15	0	0	0	0	0	15
Total	0	5	0	0	5	0	0	0	0	0	0	40	0	28	68	0	0	0	0	0	73
Grand Total	0	6	1	0	7	0	0	0	0	0	0	114	0	87	201	0	0	0	0	0	208
Apprch %	0	85.7	14.3	0		0	0	0	0		0	56.7	0	43.3		0	0	0	0		
Total %	0	2.9	0.5	0	3.4	0	0	0	0	0	0	54.8	0	41.8	96.6	0	0	0	0	0	
Unshifted	0	6	1	0	7	0	0	0	0	0	0	114	0	87	201	0	0	0	0	0	208
% Unshifted	0	100	100	0	100	0	0	0	0	0	0	100	0	100	100	0	0	0	0	0	100
Bank 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
% Bank 1	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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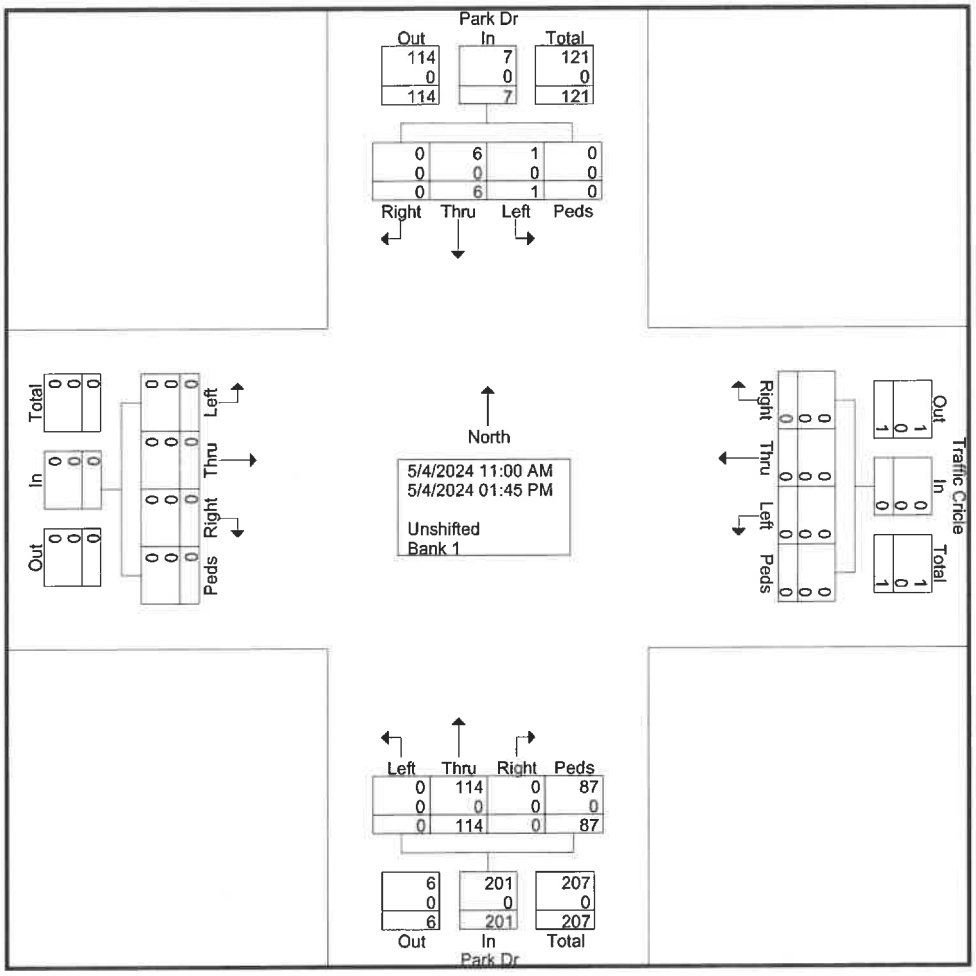
242 W Main St, Suite 100
Rochester, NY 14614

File Name : North Circle SAT Peak
Site Code : 22222222
Start Date : 5/4/2024
Page No : 2



PASSERO ASSOCIATES

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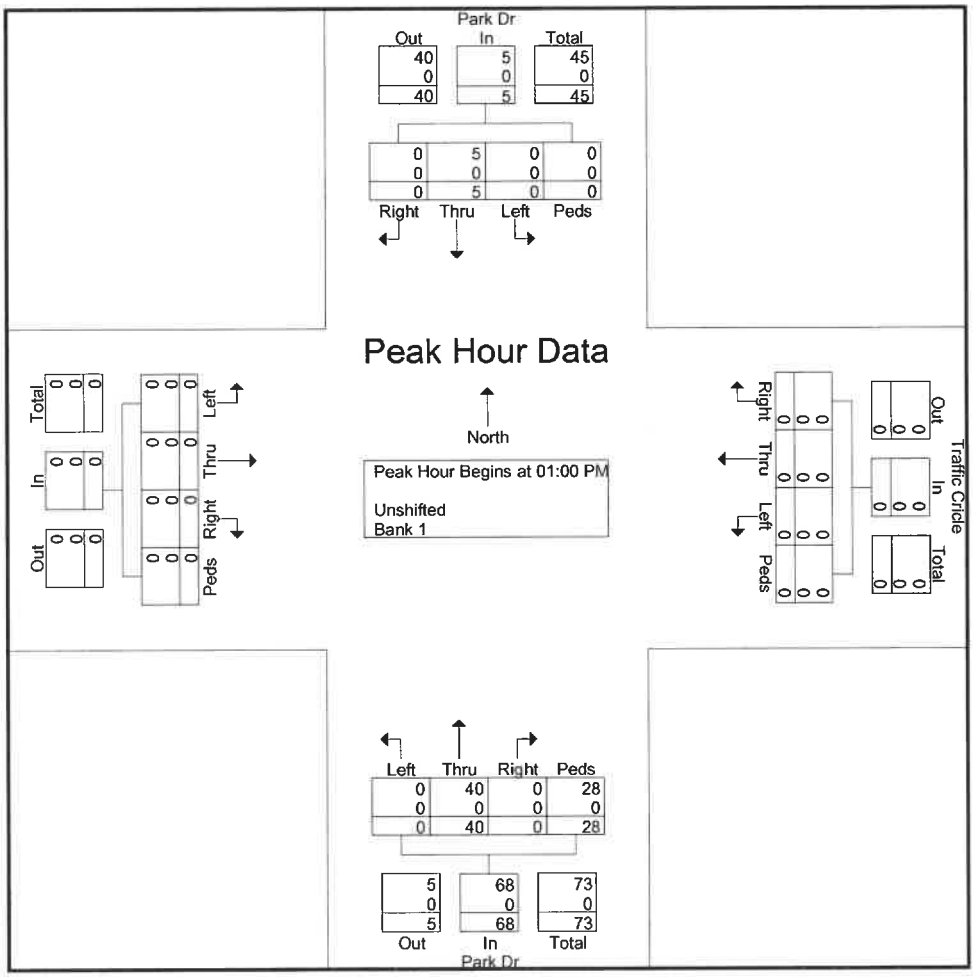
Rochester, NY 14614

File Name : North Circle SAT Peak
Site Code : 22222222
Start Date : 5/4/2024
Page No : 3

	Park Dr From North					Traffic Cricle From East					Park Dr From South					From West					
Start Time	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	Int. Total
Peak Hour Analysis From 01:00 PM to 01:45 PM - Peak 1 of 1																					
Peak Hour for Entire Intersection Begins at 01:00 PM																					
01:00 PM	0	**2**	0	0	**2**	0	0	0	0	0	0	11	0	4	15	0	0	0	0	0	17
01:15 PM	0	1	0	0	1	0	0	0	0	0	0	**15**	0	6	**21**	0	0	0	0	0	**22**
01:30 PM	0	2	0	0	2	0	0	0	0	0	0	6	0	**11**	17	0	0	0	0	0	19
01:45 PM	0	0	0	0	0	0	0	0	0	0	0	8	0	7	15	0	0	0	0	0	15
Total Volume	0	5	0	0	5	0	0	0	0	0	0	40	0	28	68	0	0	0	0	0	73
% App. Total	0	100	0	0		0	0	0	0		0	58.8	0	41.2		0	0	0	0		
PHF	.000	.625	.000	.000	.625	.000	.000	.000	.000	.000	.000	.667	.000	.636	.810	.000	.000	.000	.000	.000	.830
Unshifted	0	5	0	0	5	0	0	0	0	0	0	40	0	28	68	0	0	0	0	0	73
% Unshifted	0	100	0	0	100	0	0	0	0	0	0	100	0	100	100	0	0	0	0	0	100
Bank 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
% Bank 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0



PASSERO ASSOCIATES
242 W Main St, Suite 100
Rochester, NY 14614

File Name : Parking Lot Dwy Afternoon
Site Code : 11111111
Start Date : 5/2/2024
Page No : 1

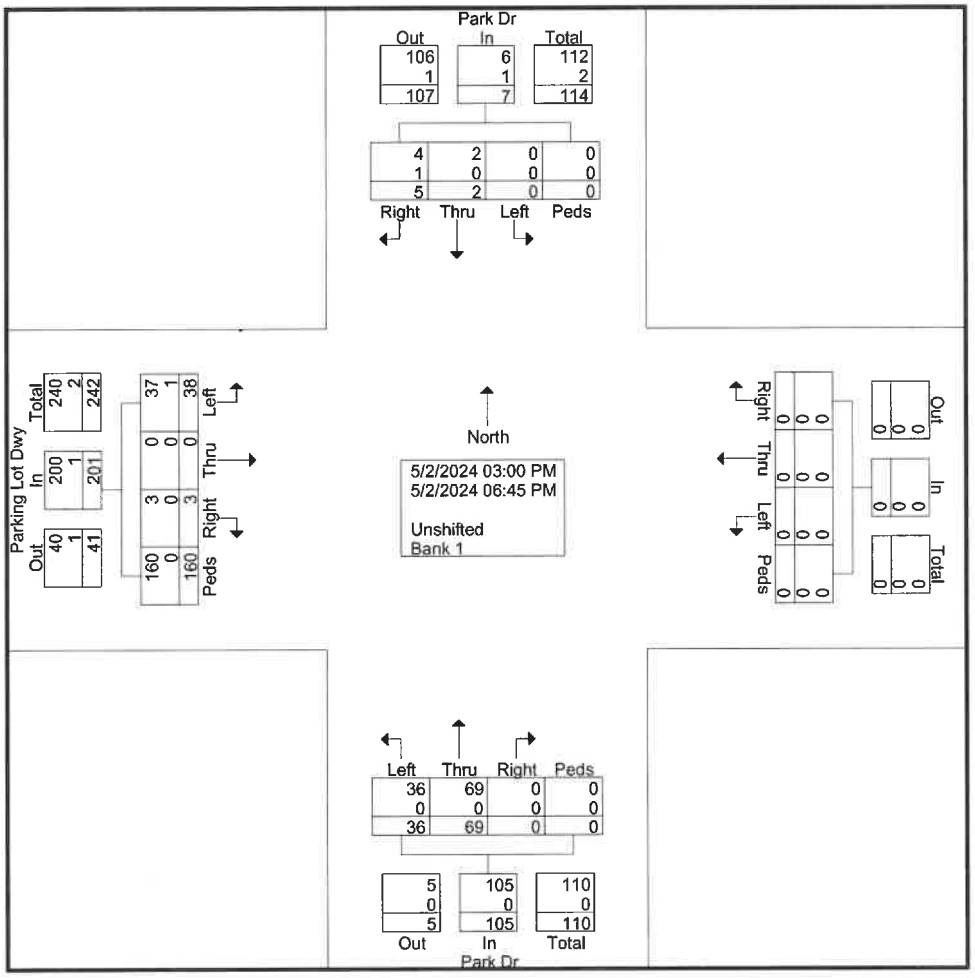
Groups Printed- Unshifted - Bank 1

	Park Dr From North					From East					Park Dr From South					Parking Lot Dwy From West					
Start Time	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	Int. Total
03:00 PM	0	0	0	0	0	0	0	0	0	0	0	5	4	0	9	0	0	2	6	8	17
03:15 PM	0	0	0	0	0	0	0	0	0	0	0	4	0	0	4	1	0	3	4	8	12
03:30 PM	0	0	0	0	0	0	0	0	0	0	0	5	2	0	7	1	0	1	8	10	17
03:45 PM	1	0	0	0	1	0	0	0	0	0	0	3	1	0	4	0	0	4	6	10	15
Total	1	0	0	0	1	0	0	0	0	0	0	17	7	0	24	2	0	10	24	36	61
04:00 PM	1	0	0	0	1	0	0	0	0	0	0	2	2	0	4	0	0	5	5	10	15
04:15 PM	0	0	0	0	0	0	0	0	0	0	0	8	2	0	10	0	0	2	9	11	21
04:30 PM	0	0	0	0	0	0	0	0	0	0	0	4	3	0	7	0	0	1	6	7	14
04:45 PM	0	0	0	0	0	0	0	0	0	0	0	5	2	0	7	1	0	2	9	12	19
Total	1	0	0	0	1	0	0	0	0	0	0	19	9	0	28	1	0	10	29	40	69
05:00 PM	1	1	0	0	2	0	0	0	0	0	0	3	3	0	6	0	0	1	6	7	15
05:15 PM	1	0	0	0	1	0	0	0	0	0	0	4	3	0	7	0	0	4	18	22	30
05:30 PM	1	1	0	0	2	0	0	0	0	0	0	6	3	0	9	0	0	5	15	20	31
05:45 PM	0	0	0	0	0	0	0	0	0	0	0	5	1	0	6	0	0	4	10	14	20
Total	3	2	0	0	5	0	0	0	0	0	0	18	10	0	28	0	0	14	49	63	96
06:00 PM	0	0	0	0	0	0	0	0	0	0	0	3	1	0	4	0	0	2	17	19	23
06:15 PM	0	0	0	0	0	0	0	0	0	0	0	7	2	0	9	0	0	1	14	15	24
06:30 PM	0	0	0	0	0	0	0	0	0	0	0	3	5	0	8	0	0	0	13	13	21
06:45 PM	0	0	0	0	0	0	0	0	0	0	0	2	2	0	4	0	0	1	14	15	19
Total	0	0	0	0	0	0	0	0	0	0	0	15	10	0	25	0	0	4	58	62	87
Grand Total	5	2	0	0	7	0	0	0	0	0	0	69	36	0	105	3	0	38	160	201	313
Apprch %	71.4	28.6	0	0		0	0	0	0		0	65.7	34.3	0		1.5	0	18.9	79.6		
Total %	1.6	0.6	0	0	2.2	0	0	0	0	0	0	22	11.5	0	33.5	1	0	12.1	51.1	64.2	
Unshifted	4	2	0	0	6	0	0	0	0	0	0	69	36	0	105	3	0	37	160	200	311
% Unshifted	80	100	0	0	85.7	0	0	0	0	0	0	100	100	0	100	100	0	97.4	100	99.5	99.4
Bank 1	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	2
% Bank 1	20	0	0	0	14.3	0	0	0	0	0	0	0	0	0	0	0	0	2.6	0	0.5	0.6

PASSERO ASSOCIATES

242 W Main St, Suite 100
Rochester, NY 14614

File Name : Parking Lot Dwy Afternoon
Site Code : 11111111
Start Date : 5/2/2024
Page No : 2

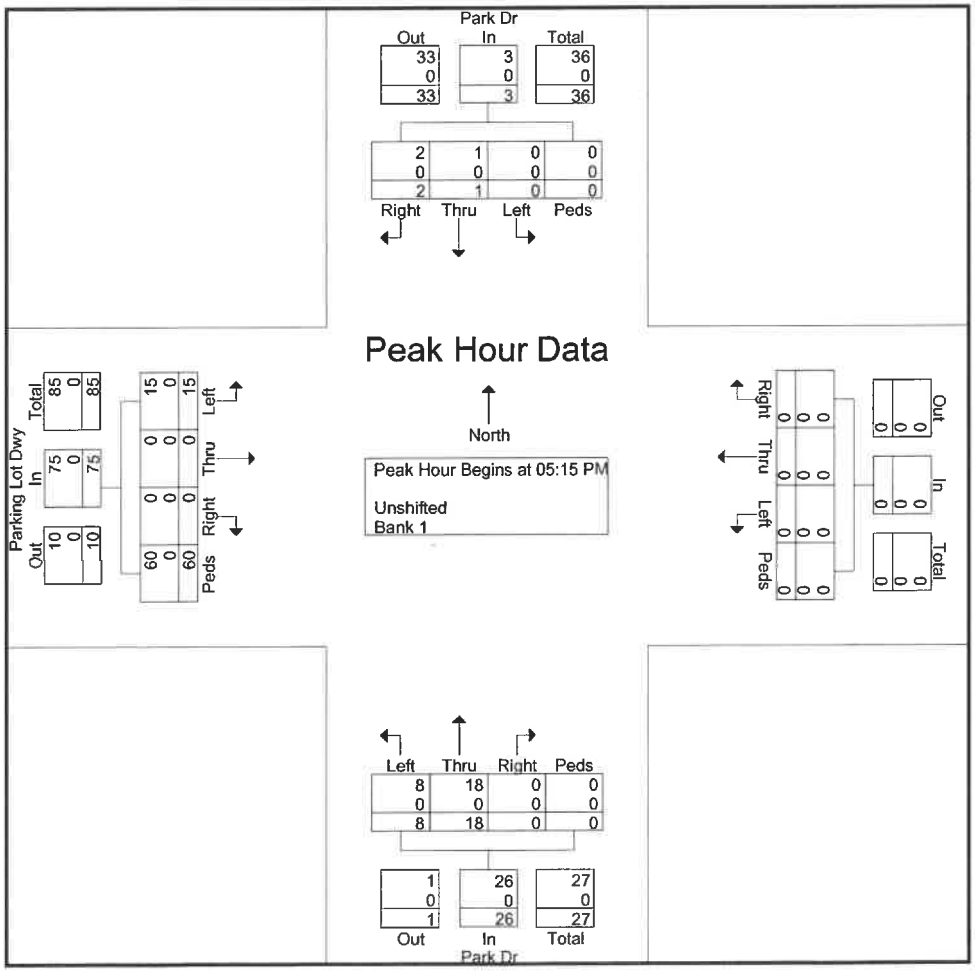


PASSERO ASSOCIATES

242 W Main St, Suite 100
Rochester, NY 14614

File Name : Parking Lot Dwy Afternoon
Site Code : 11111111
Start Date : 5/2/2024
Page No : 3

	Park Dr From North					From East					Park Dr From South					Parking Lot Dwy From West					
Start Time	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	Int. Total
Peak Hour Analysis From 03:00 PM to 06:45 PM - Peak 1 of 1																					
Peak Hour for Entire Intersection Begins at 05:15 PM																					
05:15 PM	**1**	0	0	0	1	0	0	0	0	0	0	4	**3**	0	7	0	0	4	**18**	**22**	30
05:30 PM	1	**1**	0	0	**2**	0	0	0	0	0	0	**6**	3	0	**9**	0	0	**5**	15	20	**31**
05:45 PM	0	0	0	0	0	0	0	0	0	0	0	5	1	0	6	0	0	4	10	14	20
06:00 PM	0	0	0	0	0	0	0	0	0	0	0	3	1	0	4	0	0	2	17	19	23
Total Volume	2	1	0	0	3	0	0	0	0	0	0	18	8	0	26	0	0	15	60	75	104
% App. Total	66.7	33.3	0	0		0	0	0	0		0	69.2	30.8	0		0	0	20	80		
PHF	.500	.250	.000	.000	.375	.000	.000	.000	.000	.000	.000	.750	.667	.000	.722	.000	.000	.750	.833	.852	.839
Unshifted	2	1	0	0	3	0	0	0	0	0	0	18	8	0	26	0	0	15	60	75	104
% Unshifted	100	100	0	0	100	0	0	0	0	0	0	100	100	0	100	0	0	100	100	100	100
Bank 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
% Bank 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0



PASSERO ASSOCIATES

242 W Main St, Suite 100
Rochester, NY 14614

File Name : Parking Lot Dwy SAT
Site Code : 22222222
Start Date : 5/4/2024
Page No : 1

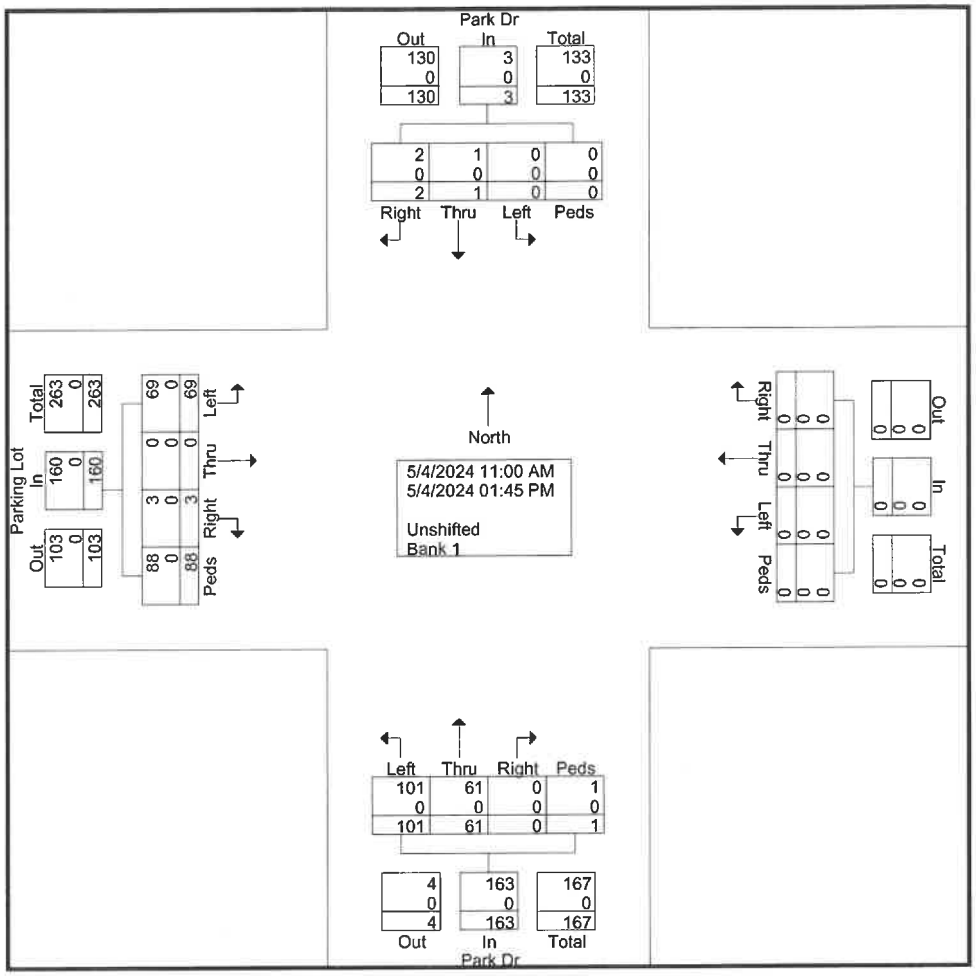
Groups Printed- Unshifted - Bank 1

	Park Dr From North					From East					Park Dr From South					Parking Lot From West					
Start Time	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	Int. Total
11:00 AM	1	0	0	0	1	0	0	0	0	0	0	3	9	0	12	0	0	2	4	6	19
11:15 AM	0	0	0	0	0	0	0	0	0	0	0	7	6	0	13	0	0	5	12	17	30
11:30 AM	0	0	0	0	0	0	0	0	0	0	0	5	3	1	9	0	0	5	6	11	20
11:45 AM	0	0	0	0	0	0	0	0	0	0	0	6	4	0	10	0	0	2	7	9	19
Total	1	0	0	0	1	0	0	0	0	0	0	21	22	1	44	0	0	14	29	43	88
12:00 PM	0	0	0	0	0	0	0	0	0	0	0	5	8	0	13	1	0	6	13	20	33
12:15 PM	0	0	0	0	0	0	0	0	0	0	0	5	2	0	7	0	0	6	7	13	20
12:30 PM	1	0	0	0	1	0	0	0	0	0	0	5	7	0	12	1	0	17	8	26	39
12:45 PM	0	0	0	0	0	0	0	0	0	0	0	4	9	0	13	1	0	6	6	13	26
Total	1	0	0	0	1	0	0	0	0	0	0	19	26	0	45	3	0	35	34	72	118
01:00 PM	0	0	0	0	0	0	0	0	0	0	0	5	5	0	10	0	0	5	4	9	19
01:15 PM	0	0	0	0	0	0	0	0	0	0	0	12	13	0	25	0	0	4	5	9	34
01:30 PM	0	1	0	0	1	0	0	0	0	0	0	2	17	0	19	0	0	5	12	17	37
01:45 PM	0	0	0	0	0	0	0	0	0	0	0	2	18	0	20	0	0	6	4	10	30
Total	0	1	0	0	1	0	0	0	0	0	0	21	53	0	74	0	0	20	25	45	120
Grand Total	2	1	0	0	3	0	0	0	0	0	0	61	101	1	163	3	0	69	88	160	326
Apprch %	66.7	33.3	0	0		0	0	0	0		0	37.4	62	0.6		1.9	0	43.1	55		
Total %	0.6	0.3	0	0	0.9	0	0	0	0	0	0	18.7	31	0.3	50	0.9	0	21.2	27	49.1	
Unshifted	2	1	0	0	3	0	0	0	0	0	0	61	101	1	163	3	0	69	88	160	326
% Unshifted	100	100	0	0	100	0	0	0	0	0	0	100	100	100	100	100	0	100	100	100	100
Bank 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
% Bank 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

PASSERO ASSOCIATES

242 W Main St, Suite 100
Rochester, NY 14614

File Name : Parking Lot Dwy SAT
Site Code : 22222222
Start Date : 5/4/2024
Page No : 2

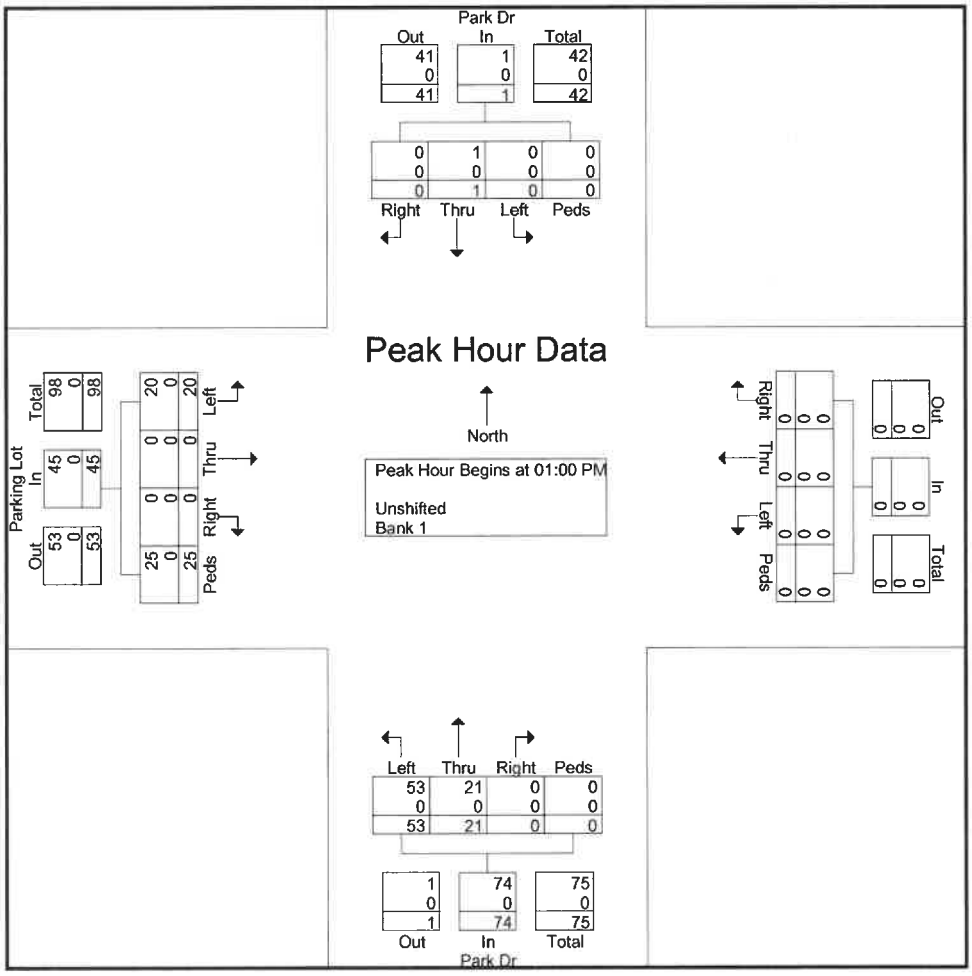


PASSERO ASSOCIATES

242 W Main St, Suite 100
Rochester, NY 14614

File Name : Parking Lot Dwy SAT
Site Code : 22222222
Start Date : 5/4/2024
Page No : 3

	Park Dr From North					From East					Park Dr From South					Parking Lot From West					
Start Time	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	Int. Total
Peak Hour Analysis From 11:00 AM to 01:45 PM - Peak 1 of 1																					
Peak Hour for Entire Intersection Begins at 01:00 PM																					
01:00 PM	0	0	0	0	0	0	0	0	0	0	0	5	5	0	10	0	0	5	4	9	19
01:15 PM	0	0	0	0	0	0	0	0	0	0	0	**12**	13	0	**25**	0	0	4	5	9	34
01:30 PM	0	**1**	0	0	**1**	0	0	0	0	0	0	2	17	0	19	0	0	5	**12**	**17**	**37**
01:45 PM	0	0	0	0	0	0	0	0	0	0	0	2	**18**	0	20	0	0	**6**	4	10	30
Total Volume	0	1	0	0	1	0	0	0	0	0	0	21	53	0	74	0	0	20	25	45	120
% App. Total	0	100	0	0		0	0	0	0		0	28.4	71.6	0		0	0	44.4	55.6		
PHF	.000	.250	.000	.000	.250	.000	.000	.000	.000	.000	.000	.438	.736	.000	.740	.000	.000	.833	.521	.662	.811
Unshifted	0	1	0	0	1	0	0	0	0	0	0	21	53	0	74	0	0	20	25	45	120
% Unshifted	0	100	0	0	100	0	0	0	0	0	0	100	100	0	100	0	0	100	100	100	100
Bank 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
% Bank 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0



PASSERO ASSOCIATES
242 W Main St, Suite 100
Rochester, NY 14614

File Name : South Circle PM Peak
Site Code : 00002468
Start Date : 5/2/2024
Page No : 1

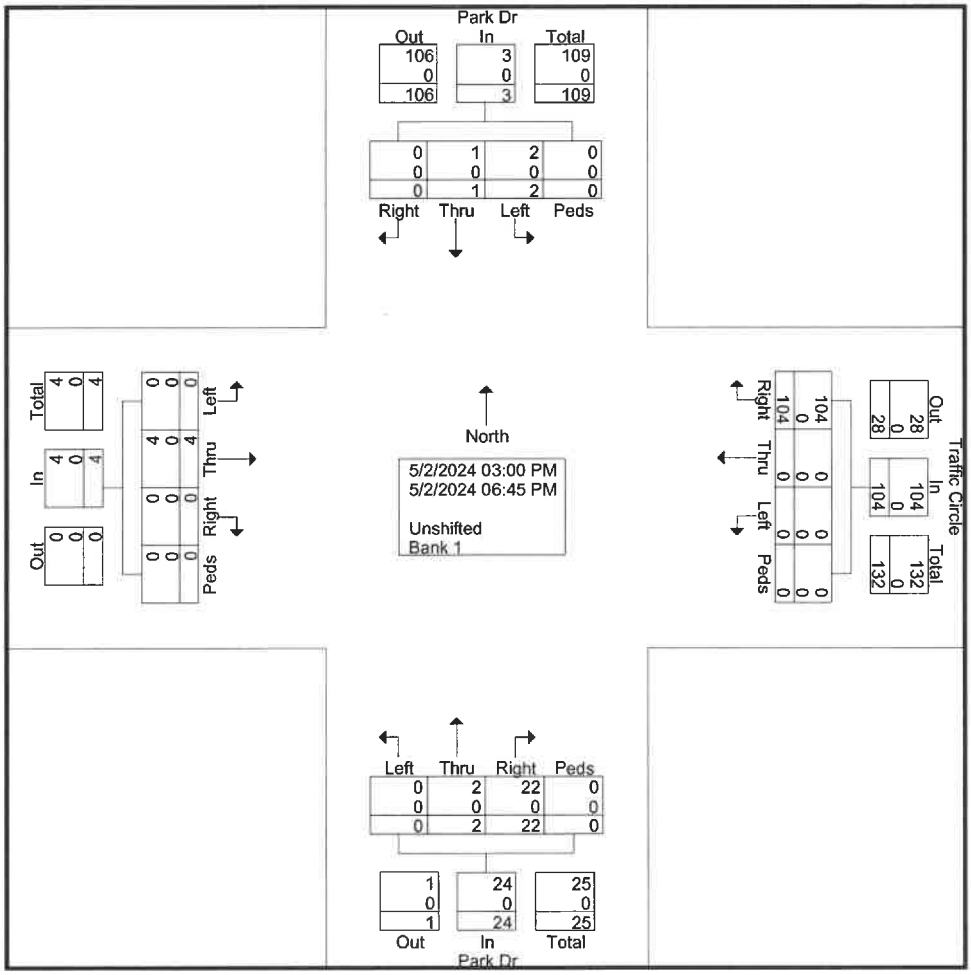
Groups Printed- Unshifted - Bank 1

	Park Dr From North					Traffic Circle From East					Park Dr From South					From West					
Start Time	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	Int. Total
03:00 PM	0	0	0	0	0	9	0	0	0	9	0	0	0	0	0	0	1	0	0	1	10
03:15 PM	0	0	1	0	1	5	0	0	0	5	2	0	0	0	2	0	0	0	0	0	8
03:30 PM	0	0	1	0	1	5	0	0	0	5	4	1	0	0	5	0	0	0	0	0	11
03:45 PM	0	0	0	0	0	5	0	0	0	5	0	0	0	0	0	0	1	0	0	1	6
Total	0	0	2	0	2	24	0	0	0	24	6	1	0	0	7	0	2	0	0	2	35
04:00 PM	0	0	0	0	0	3	0	0	0	3	0	0	0	0	0	0	0	0	0	0	3
04:15 PM	0	0	0	0	0	12	0	0	0	12	1	1	0	0	2	0	0	0	0	0	14
04:30 PM	0	0	0	0	0	5	0	0	0	5	5	0	0	0	5	0	0	0	0	0	10
04:45 PM	0	0	0	0	0	5	0	0	0	5	3	0	0	0	3	0	0	0	0	0	8
Total	0	0	0	0	0	25	0	0	0	25	9	1	0	0	10	0	0	0	0	0	35
05:00 PM	0	1	0	0	1	9	0	0	0	9	4	0	0	0	4	0	1	0	0	1	15
05:15 PM	0	0	0	0	0	5	0	0	0	5	0	0	0	0	0	0	0	0	0	0	5
05:30 PM	0	0	0	0	0	8	0	0	0	8	1	0	0	0	1	0	0	0	0	0	9
05:45 PM	0	0	0	0	0	7	0	0	0	7	0	0	0	0	0	0	0	0	0	0	7
Total	0	1	0	0	1	29	0	0	0	29	5	0	0	0	5	0	1	0	0	1	36
06:00 PM	0	0	0	0	0	5	0	0	0	5	0	0	0	0	0	0	0	0	0	0	5
06:15 PM	0	0	0	0	0	6	0	0	0	6	1	0	0	0	1	0	0	0	0	0	7
06:30 PM	0	0	0	0	0	10	0	0	0	10	0	0	0	0	0	0	0	0	0	0	10
06:45 PM	0	0	0	0	0	5	0	0	0	5	1	0	0	0	1	0	1	0	0	1	7
Total	0	0	0	0	0	26	0	0	0	26	2	0	0	0	2	0	1	0	0	1	29
Grand Total	0	1	2	0	3	104	0	0	0	104	22	2	0	0	24	0	4	0	0	4	135
Apprch %	0	33.3	66.7	0		100	0	0	0		91.7	8.3	0	0		0	100	0	0		
Total %	0	0.7	1.5	0	2.2	77	0	0	0	77	16.3	1.5	0	0	17.8	0	3	0	0	3	
Unshifted	0	1	2	0	3	104	0	0	0	104	22	2	0	0	24	0	4	0	0	4	135
% Unshifted	0	100	100	0	100	100	0	0	0	100	100	100	0	0	100	0	100	0	0	100	100
Bank 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
% Bank 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

PASSERO ASSOCIATES

242 W Main St, Suite 100
Rochester, NY 14614

File Name : South Circle PM Peak
Site Code : 00002468
Start Date : 5/2/2024
Page No : 2

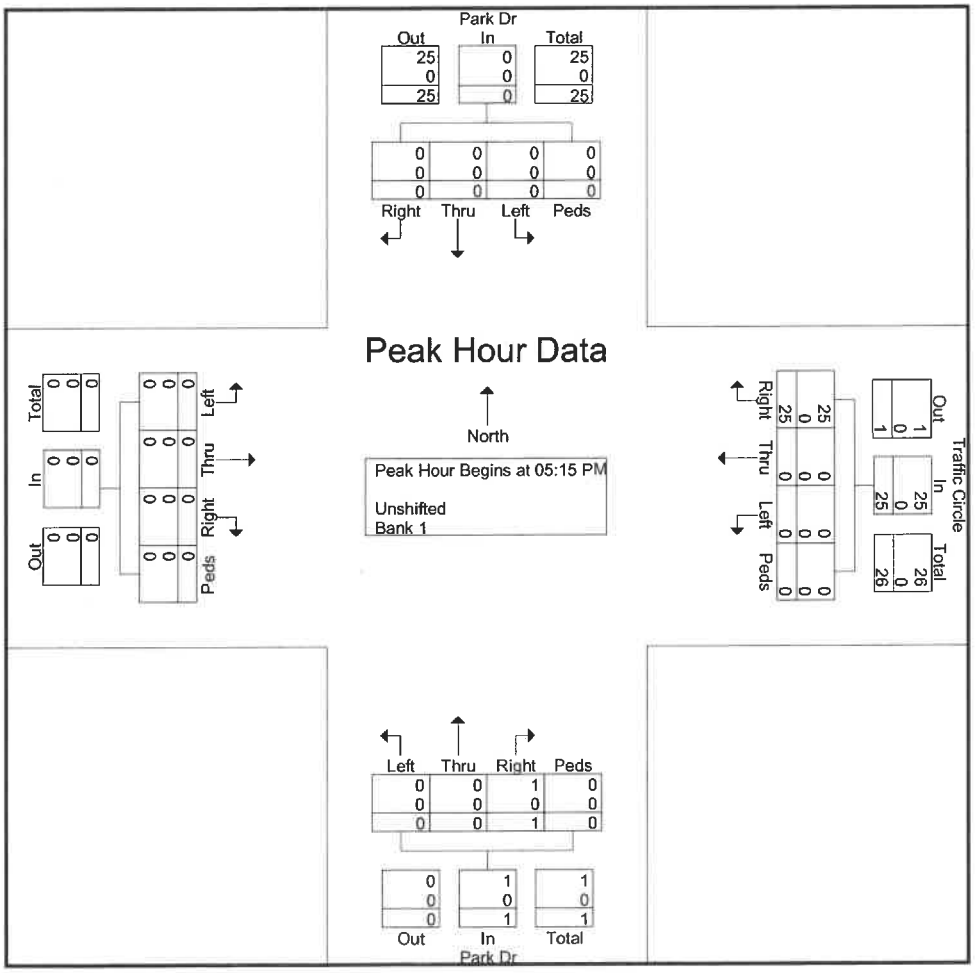


PASSERO ASSOCIATES

242 W Main St, Suite 100
Rochester, NY 14614

File Name : South Circle PM Peak
Site Code : 00002468
Start Date : 5/2/2024
Page No : 3

	Park Dr From North					Traffic Circle From East					Park Dr From South					From West					
Start Time	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	Int. Total
Peak Hour Analysis From 05:15 PM to 06:00 PM - Peak 1 of 1																					
Peak Hour for Entire Intersection Begins at 05:15 PM																					
05:15 PM	0	0	0	0	0	5	0	0	0	5	0	0	0	0	0	0	0	0	0	0	5
05:30 PM	0	0	0	0	0	**8**	0	0	0	**8**	**1**	0	0	0	**1**	0	0	0	0	0	**9**
05:45 PM	0	0	0	0	0	7	0	0	0	7	0	0	0	0	0	0	0	0	0	0	7
06:00 PM	0	0	0	0	0	5	0	0	0	5	0	0	0	0	0	0	0	0	0	0	5
Total Volume	0	0	0	0	0	25	0	0	0	25	1	0	0	0	1	0	0	0	0	0	26
% App. Total	0	0	0	0		100	0	0	0		100	0	0	0		0	0	0	0		
PHF	.000	.000	.000	.000	.000	.781	.000	.000	.000	.781	.250	.000	.000	.000	.250	.000	.000	.000	.000	.000	.722
Unshifted	0	0	0	0	0	25	0	0	0	25	1	0	0	0	1	0	0	0	0	0	26
% Unshifted	0	0	0	0	0	100	0	0	0	100	100	0	0	0	100	0	0	0	0	0	100
Bank 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
% Bank 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0



PASSERO ASSOCIATES

242 W Main St, Suite 100
Rochester, NY 14614

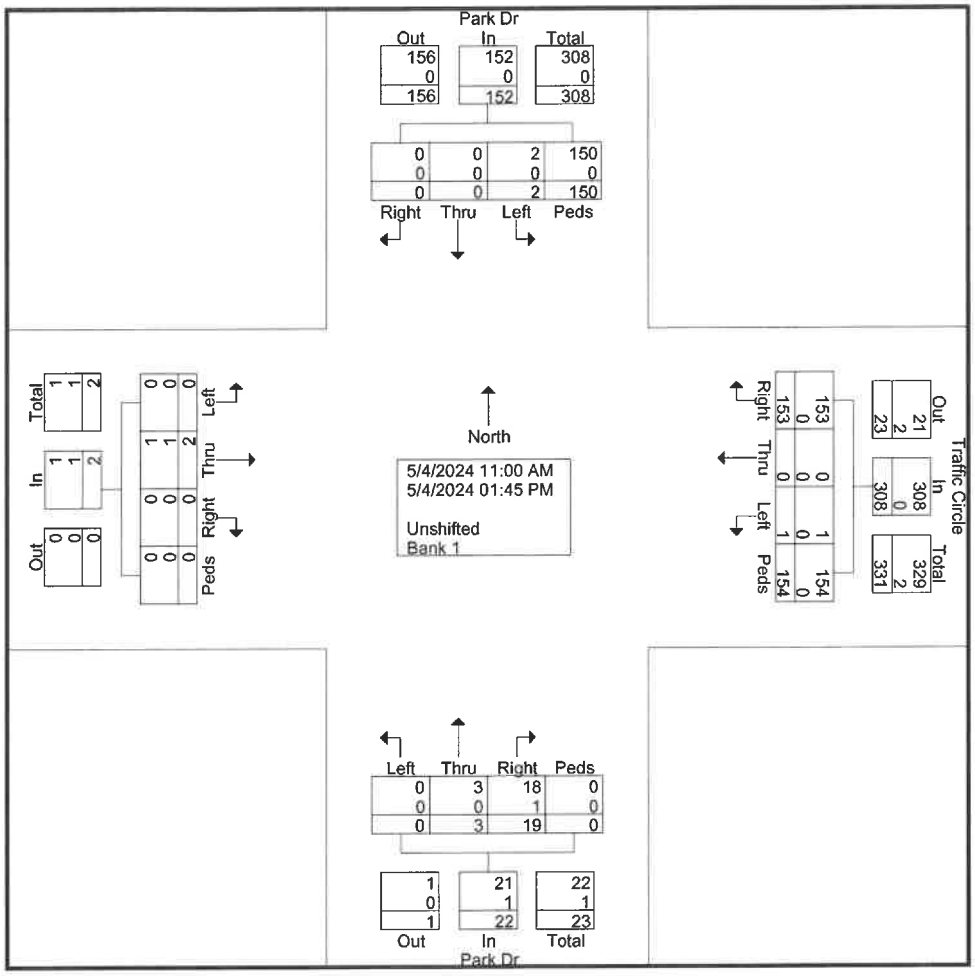
File Name : South Circle SAT Peak
Site Code : 00002468
Start Date : 5/4/2024
Page No : 1

Groups Printed- Unshifted - Bank 1

	Park Dr From North					Traffic Circle From East					Park Dr From South					From West					
Start Time	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	Int. Total
11:00 AM	0	0	0	9	9	11	0	0	12	23	1	2	0	0	3	0	0	0	0	0	35
11:15 AM	0	0	0	15	15	12	0	0	18	30	1	1	0	0	2	0	0	0	0	0	47
11:30 AM	0	0	0	5	5	8	0	0	15	23	0	0	0	0	0	0	1	0	0	1	29
11:45 AM	0	0	0	12	12	8	0	0	5	13	2	0	0	0	2	0	0	0	0	0	27
Total	0	0	0	41	41	39	0	0	50	89	4	3	0	0	7	0	1	0	0	1	138
12:00 PM	0	0	0	12	12	12	0	0	16	28	0	0	0	0	0	0	0	0	0	0	40
12:15 PM	0	0	0	7	7	5	0	0	7	12	2	0	0	0	2	0	0	0	0	0	21
12:30 PM	0	0	1	14	15	10	0	0	10	20	1	0	0	0	1	0	0	0	0	0	36
12:45 PM	0	0	1	14	15	15	0	0	8	23	4	0	0	0	4	0	0	0	0	0	42
Total	0	0	2	47	49	42	0	0	41	83	7	0	0	0	7	0	0	0	0	0	139
01:00 PM	0	0	0	12	12	7	0	0	19	26	3	0	0	0	3	0	0	0	0	0	41
01:15 PM	0	0	0	22	22	26	0	1	22	49	2	0	0	0	2	0	1	0	0	1	74
01:30 PM	0	0	0	13	13	20	0	0	13	33	1	0	0	0	1	0	0	0	0	0	47
01:45 PM	0	0	0	15	15	19	0	0	9	28	2	0	0	0	2	0	0	0	0	0	45
Total	0	0	0	62	62	72	0	1	63	136	8	0	0	0	8	0	1	0	0	1	207
Grand Total	0	0	2	150	152	153	0	1	154	308	19	3	0	0	22	0	2	0	0	2	484
Apprch %	0	0	1.3	98.7		49.7	0	0.3	50		86.4	13.6	0	0		0	100	0	0		
Total %	0	0	0.4	31	31.4	31.6	0	0.2	31.8	63.6	3.9	0.6	0	0	4.5	0	0.4	0	0	0.4	
Unshifted	0	0	2	150	152	153	0	1	154	308	18	3	0	0	21	0	1	0	0	1	482
% Unshifted	0	0	100	100	100	100	0	100	100	100	94.7	100	0	0	95.5	0	50	0	0	50	99.6
Bank 1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	1	0	0	1	2
% Bank 1	0	0	0	0	0	0	0	0	0	0	5.3	0	0	0	4.5	0	50	0	0	50	0.4

PASSERO ASSOCIATES
242 W Main St, Suite 100
Rochester, NY 14614

File Name : South Circle SAT Peak
Site Code : 00002468
Start Date : 5/4/2024
Page No : 2

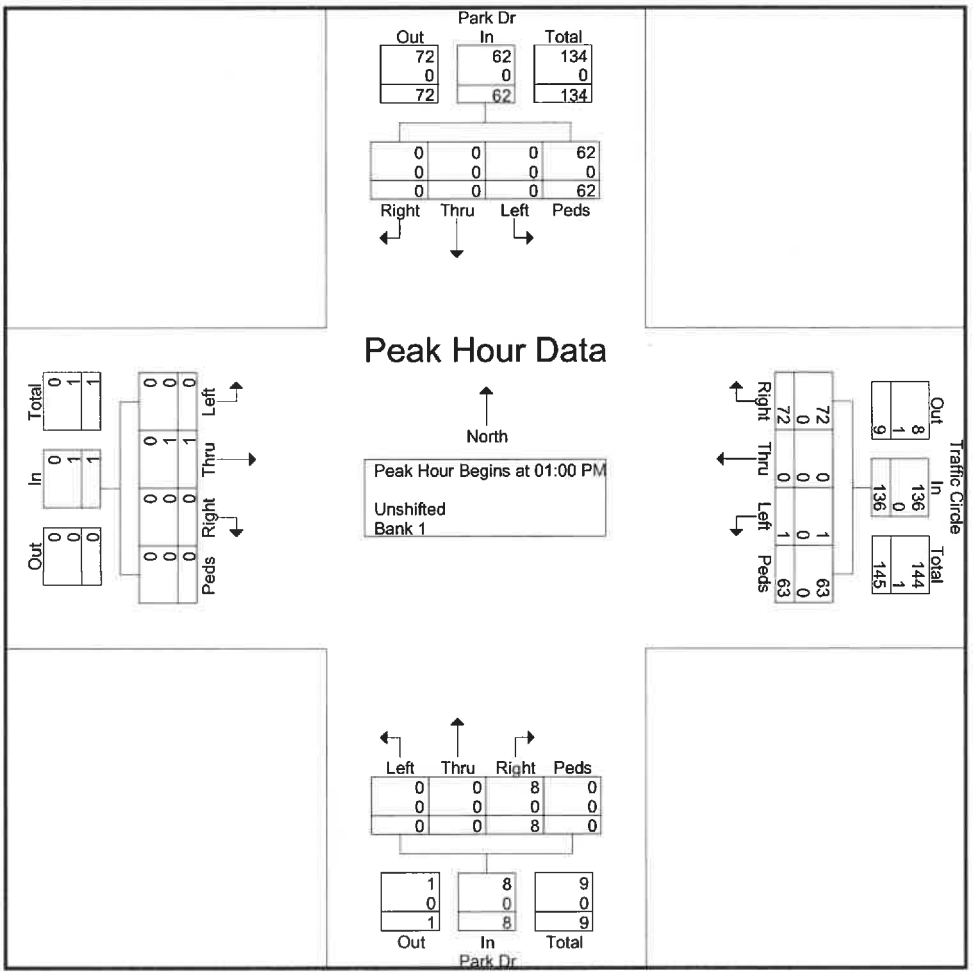


PASSERO ASSOCIATES

242 W Main St, Suite 100
Rochester, NY 14614

File Name : South Circle SAT Peak
Site Code : 00002468
Start Date : 5/4/2024
Page No : 3

	Park Dr From North					Traffic Circle From East					Park Dr From South					From West					
Start Time	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	Int. Total
Peak Hour Analysis From 11:00 AM to 01:45 PM - Peak 1 of 1																					
Peak Hour for Entire Intersection Begins at 01:00 PM																					
01:00 PM	0	0	0	12	12	7	0	0	19	26	**3**	0	0	0	**3**	0	0	0	0	0	41
01:15 PM	0	0	0	**22**	**22**	**26**	0	**1**	**22**	**49**	2	0	0	0	2	0	**1**	0	0	**1**	**74**
01:30 PM	0	0	0	13	13	20	0	0	13	33	1	0	0	0	1	0	0	0	0	0	47
01:45 PM	0	0	0	15	15	19	0	0	9	28	2	0	0	0	2	0	0	0	0	0	45
Total Volume	0	0	0	62	62	72	0	1	63	136	8	0	0	0	8	0	1	0	0	1	207
% App. Total	0	0	0	100		52.9	0	0.7	46.3		100	0	0	0		0	100	0	0		
PHF	.000	.000	.000	.705	.705	.692	.000	.250	.716	.694	.667	.000	.000	.000	.667	.000	.250	.000	.000	.250	.699
Unshifted	0	0	0	62	62	72	0	1	63	136	8	0	0	0	8	0	0	0	0	0	206
% Unshifted	0	0	0	100	100	100	0	100	100	100	100	0	0	0	100	0	0	0	0	0	99.5
Bank 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	1
% Bank 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	100	0	0	100	0.5



APPENDIX B: MISCELLANEOUS CALCULATIONS

PASSERO

PROJECT: Buffalo and Erie County Botanical Gardens Expansion
LOCATION: City of Buffalo, NY
PEAK HOUR: Weekday Afternoon PM

Figure Number 3 4 5 6

LOCATION NUMBER	INTERSECTION DESCRIPTION	2024 Collected Volumes	Trip Generation and Distribution				Total Site Trips	Full Build Volumes
			Enter Dist. %	Exit Dist. %	Trips IN 10	Trips OUT 16		
1	Park Dr/ Botanical Gardens South Driveway							
	SR							
	ST							
	SL	1		100%		16	16	17
	WR		100%		10		10	10
	WT							
	WL							
	NR							
	NT							
	NL							
	ER							
	ET							
	EL							
2	Park Dr/ Southerly Circle							
	SR							
	ST							
	SL							
	WR	25						25
	WT							
	WL		100%		10		10	10
	NR	1		100%		16	16	17
	NT							
	NL							
	ER							
	ET							
	EL							
3	Park Dr/ Botanical Gardens South Parking Lot Driveway							
	SR	2						2
	ST	1						1
	SL							
	WR							
	WT							
	WL							
	NR							
	NT	18						18
	NL	8						8
	ER							
	ET							
	EL	15						15
4	Park Dr/ Botanical Gardens North Parking Lot Driveway							
	SR	2						2
	ST	1						1
	SL							
	WR							
	WT							
	WL							
	NR							
	NT	18						18
	NL	8						8
	ER							
	ET							
	EL	15						15
5	Park Dr/ Northerly Circle							
	SR							
	ST	3						3
	SL							
	WR							
	WT							
	WL							
	NR	29						29
	NT							
	NL							
	ER							
	ET							
	EL							

PASSERO

PROJECT: Buffalo and Erie County Botanical Gardens Expansion
LOCATION: City of Buffalo, NY
PEAK HOUR: Saturday Midday

Figure Number 3 4 5 6

LOCATION NUMBER	INTERSECTION DESCRIPTION	2024 Collected Volumes	Trip Generation and Distribution				Total Site Trips	Full Build Volumes
			Enter Dist. %	Exit Dist. %	Trips IN 53	Trips OUT 28		
1	Park Dr/ Botanical Gardens South Driveway							
	SR							
	ST							
	SL	8		100%		28	28	36
	WR		100%		53		53	53
	WT							
	WL							
	NR							
	NT							
	NL							
	ER							
	ET							
	EL							
2	Park Dr/ Southerly Circle							
	SR							
	ST							
	SL							
	WR	72						72
	WT							
	WL	1	100%		53		53	54
	NR	8		100%		28	28	36
	NT							
	NL							
	ER							
	ET	1						1
	EL							
3	Park Dr/ Botanical Gardens South Parking Lot Driveway							
	SR							
	ST	1						1
	SL							
	WR							
	WT							
	WL							
	NR							
	NT	21						21
	NL	53						53
	ER							
	ET							
	EL	20						20
4	Park Dr/ Botanical Gardens North Parking Lot Driveway							
	SR							
	ST	1						1
	SL							
	WR							
	WT							
	WL							
	NR							
	NT	21						21
	NL	53						53
	ER							
	ET							
	EL	20						20
5	Park Dr/ Northerly Circle							
	SR							
	ST	5						5
	SL							
	WR							
	WT							
	WL							
	NR	40						40
	NT							
	NL							
	ER							
	ET							
	EL							

APPENDIX C: LOS CALCULATIONS – EXISTING CONDITIONS

MOVEMENT SUMMARY

▽ Site: 1 [Buffalo and Erie County Botanical Gardens - PM Existing Conditions (Site Folder: General)]

Output produced by SIDRA INTERSECTION Version: 9.1.6.228

South Roundabout
Single Lane Roundabout
PM Peak Hour - SIDRA Existing Conditions
Site Category: (None)
Roundabout

Vehicle Movement Performance

Mov ID	Turn	Mov Class	Demand Flows [Total veh/h	HV] %	Arrival Flows [Total veh/h	HV] %	Deg. Satn v/c	Aver. Delay sec	Level of Service	95% Back Of Queue [Veh. veh	Dist] ft	Prop. Que	Eff. Stop Rate	Aver. No. of Cycles	Aver. Speed mph
South: Ring Road South															
8	T1	All MCs	2	0.0	2	0.0	0.002	1.2	LOS A	0.0	0.0	0.00	0.31	0.00	30.9
18	R2	All MCs	2	0.0	2	0.0	0.002	3.7	LOS A	0.0	0.0	0.00	0.31	0.00	34.5
Approach			3	0.0	3	0.0	0.002	2.5	LOS A	0.0	0.0	0.00	0.31	0.00	32.6
East: Entrance and Exit Driveway															
16	R2	All MCs	38	0.0	38	0.0	0.027	3.7	LOS A	0.1	3.1	0.02	0.44	0.02	36.5
Approach			38	0.0	38	0.0	0.027	3.7	LOS A	0.1	3.1	0.02	0.44	0.02	36.5
All Vehicles			42	0.0	42	0.0	0.027	3.6	LOS A	0.1	3.1	0.02	0.43	0.02	36.2

Site Level of Service (LOS) Method: Delay & v/c (HCM 2010). Site LOS Method is specified in the Parameter Settings dialog (Options tab).
Roundabout LOS Method: Same as Signalised Intersections.
Vehicle movement LOS values are based on average delay and v/c ratio (degree of saturation) per movement.
LOS F will result if v/c > 1 irrespective of movement delay value (does not apply for approaches and intersection).
Intersection and Approach LOS values are based on average delay for all movements (v/c not used as specified in HCM 2010).
Roundabout Capacity Model: SIDRA HCM.
Delay Model: SIDRA Standard (Control Delay: Geometric Delay is included).
Queue Model: SIDRA queue estimation methods are used for Back of Queue and Queue at Start of Gap.
Gap-Acceptance Capacity Formula: SIDRA Standard (Akçelik M3D).
HV (%) values are calculated for All Movement Classes of All Heavy Vehicle Model Designation.
Arrival Flows used in performance calculations are adjusted to include any Initial Queued Demand and Upstream Capacity Constraint effects.

MOVEMENT SUMMARY

Site: 1 [Buffalo and Erie County Botanical Gardens - SAT Existing Conditions (Site Folder: General)]

Output produced by SIDRA INTERSECTION Version: 9.1.6.228

South Roundabout
Single Lane Roundabout
SAT Peak Hour - SIDRA Existing Conditions
Site Category: (None)
Roundabout

Vehicle Movement Performance

Mov ID	Turn	Mov Class	Demand Flows [Total veh/h	HV] %	Arrival Flows [Total veh/h	HV] %	Deg. Satn v/c	Aver. Delay sec	Level of Service	95% Back Of Queue [Veh. veh	Dist] ft	Prop. Que	Eff. Stop Rate	Aver. No. of Cycles	Aver. Speed mph
South: Ring Road South															
8	T1	All MCs	2	0.0	2	0.0	0.012	1.2	LOS A	0.0	0.0	0.00	0.42	0.00	32.1
18	R2	All MCs	14	0.0	14	0.0	0.012	3.7	LOS A	0.0	0.0	0.00	0.42	0.00	36.1
Approach			15	0.0	15	0.0	0.012	3.4	LOS A	0.0	0.0	0.00	0.42	0.00	35.6
East: Entrance and Exit Driveway															
16	R2	All MCs	123	0.0	123	0.0	0.088	3.7	LOS A	0.4	10.5	0.02	0.44	0.02	36.5
Approach			123	0.0	123	0.0	0.088	3.7	LOS A	0.4	10.5	0.02	0.44	0.02	36.5
All Vehicles			139	0.0	139	0.0	0.088	3.7	LOS A	0.4	10.5	0.02	0.44	0.02	36.4

Site Level of Service (LOS) Method: Delay & v/c (HCM 2010). Site LOS Method is specified in the Parameter Settings dialog (Options tab).
Roundabout LOS Method: Same as Signalised Intersections.
Vehicle movement LOS values are based on average delay and v/c ratio (degree of saturation) per movement.
LOS F will result if v/c > 1 irrespective of movement delay value (does not apply for approaches and intersection).
Intersection and Approach LOS values are based on average delay for all movements (v/c not used as specified in HCM 2010).
Roundabout Capacity Model: SIDRA HCM.
Delay Model: SIDRA Standard (Control Delay: Geometric Delay is included).
Queue Model: SIDRA queue estimation methods are used for Back of Queue and Queue at Start of Gap.
Gap-Acceptance Capacity Formula: SIDRA Standard (Akçelik M3D).
HV (%) values are calculated for All Movement Classes of All Heavy Vehicle Model Designation.
Arrival Flows used in performance calculations are adjusted to include any Initial Queued Demand and Upstream Capacity Constraint effects.

APPENDIX D: LOS CALCULATIONS – FULL BUILD CONDITION

MOVEMENT SUMMARY

Site: 1 [Buffalo and Erie County Botanical Gardens - PM Future Conditions (Site Folder: General)]

Output produced by SIDRA INTERSECTION Version: 9.1.6.228

South Roundabout
Single Lane Roundabout
PM Peak Hour - SIDRA Future Conditions
Site Category: (None)
Roundabout

Vehicle Movement Performance

Mov ID	Turn	Mov Class	Demand Flows [Total veh/h	HV] %	Arrival Flows [Total veh/h	HV] %	Deg. Satn v/c	Aver. Delay sec	Level of Service	95% Back Of Queue [Veh. veh	Dist] ft	Prop. Que	Eff. Stop Rate	Aver. No. of Cycles	Aver. Speed mph
South: Ring Road South															
8	T1	All MCs	2	0.0	2	0.0	0.021	1.2	LOS A	0.0	0.0	0.00	0.43	0.00	32.3
18	R2	All MCs	26	0.0	26	0.0	0.021	3.7	LOS A	0.0	0.0	0.00	0.43	0.00	36.3
Approach			28	0.0	28	0.0	0.021	3.6	LOS A	0.0	0.0	0.00	0.43	0.00	36.1
East: Entrance and Exit Driveway															
1	L2	All MCs	17	0.0	17	0.0	0.039	9.9	LOS A	0.2	4.5	0.02	0.53	0.02	35.0
16	R2	All MCs	38	0.0	38	0.0	0.039	3.7	LOS A	0.2	4.5	0.02	0.53	0.02	35.5
Approach			55	0.0	55	0.0	0.039	5.6	LOS A	0.2	4.5	0.02	0.53	0.02	35.4
All Vehicles			83	0.0	83	0.0	0.039	4.9	LOS A	0.2	4.5	0.01	0.50	0.01	35.6

Site Level of Service (LOS) Method: Delay & v/c (HCM 2010). Site LOS Method is specified in the Parameter Settings dialog (Options tab).
Roundabout LOS Method: Same as Signalised Intersections.
Vehicle movement LOS values are based on average delay and v/c ratio (degree of saturation) per movement.
LOS F will result if v/c > 1 irrespective of movement delay value (does not apply for approaches and intersection).
Intersection and Approach LOS values are based on average delay for all movements (v/c not used as specified in HCM 2010).
Roundabout Capacity Model: SIDRA HCM.
Delay Model: SIDRA Standard (Control Delay: Geometric Delay is included).
Queue Model: SIDRA queue estimation methods are used for Back of Queue and Queue at Start of Gap.
Gap-Acceptance Capacity Formula: SIDRA Standard (Akçelik M3D).
HV (%) values are calculated for All Movement Classes of All Heavy Vehicle Model Designation.
Arrival Flows used in performance calculations are adjusted to include any Initial Queued Demand and Upstream Capacity Constraint effects.

MOVEMENT SUMMARY

Site: 1 [Buffalo and Erie County Botanical Gardens - SAT Future Conditions (Site Folder: General)]

Output produced by SIDRA INTERSECTION Version: 9.1.6.228

South Roundabout
Single Lane Roundabout
SAT Peak Hour - SIDRA Future Conditions
Site Category: (None)
Roundabout

Vehicle Movement Performance

Mov ID	Turn	Mov Class	Demand Flows [Total veh/h	HV] %	Arrival Flows [Total veh/h	HV] %	Deg. Satn v/c	Aver. Delay sec	Level of Service	95% Back Of Queue [Veh. veh	Dist] ft	Prop. Que	Eff. Stop Rate	Aver. No. of Cycles	Aver. Speed mph
South: Ring Road South															
8	T1	All MCs	2	0.0	2	0.0	0.047	1.2	LOS A	0.0	0.0	0.00	0.44	0.00	32.4
18	R2	All MCs	62	0.0	62	0.0	0.047	3.7	LOS A	0.0	0.0	0.00	0.44	0.00	36.5
Approach			63	0.0	63	0.0	0.047	3.6	LOS A	0.0	0.0	0.00	0.44	0.00	36.3
East: Entrance and Exit Driveway															
1	L2	All MCs	93	0.0	93	0.0	0.154	9.9	LOS A	0.8	19.6	0.02	0.56	0.02	34.7
16	R2	All MCs	123	0.0	123	0.0	0.154	3.7	LOS A	0.8	19.6	0.02	0.56	0.02	35.1
Approach			216	0.0	216	0.0	0.154	6.3	LOS A	0.8	19.6	0.02	0.56	0.02	34.9
All Vehicles			279	0.0	279	0.0	0.154	5.7	LOS A	0.8	19.6	0.02	0.53	0.02	35.2

Site Level of Service (LOS) Method: Delay & v/c (HCM 2010). Site LOS Method is specified in the Parameter Settings dialog (Options tab).
Roundabout LOS Method: Same as Signalised Intersections.
Vehicle movement LOS values are based on average delay and v/c ratio (degree of saturation) per movement.
LOS F will result if v/c > 1 irrespective of movement delay value (does not apply for approaches and intersection).
Intersection and Approach LOS values are based on average delay for all movements (v/c not used as specified in HCM 2010).
Roundabout Capacity Model: SIDRA HCM.
Delay Model: SIDRA Standard (Control Delay: Geometric Delay is included).
Queue Model: SIDRA queue estimation methods are used for Back of Queue and Queue at Start of Gap.
Gap-Acceptance Capacity Formula: SIDRA Standard (Akçelik M3D).
HV (%) values are calculated for All Movement Classes of All Heavy Vehicle Model Designation.
Arrival Flows used in performance calculations are adjusted to include any Initial Queued Demand and Upstream Capacity Constraint effects.

Exhibit H

September 23, 2024

Ms. Erin Grajek
Interim President/CEO
Buffalo and Erie County Botanical Gardens
2655 South Park Avenue
Buffalo, NY 14218

Dear Ms. Grajek,

On behalf of the Buffalo Olmsted Parks Conservancy, I would like to express my full support for the Botanical Gardens expansion plan.

I understand their vision and the need to add additional square footage to host meaningful children's programing, revenue generating special events, and much needed visitor amenities to align with the community's needs. The expansion project is right sized to complement the historic conservatory and surrounding historic landscapes.

The Botanical Gardens is a great partner to the Buffalo Olmsted Parks Conservancy. We continue to work together to ensure our endeavors are complementary to each other's unique organizations while respecting the importance of our historic roots.

Sincerely,

Catie Stephenson

Catie Stephenson
Executive Director