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NextEng Consulting Group Inc.

June 19, 2023

Kaneff Group 8501 Mississauga Road Brampton ON L6Y 5G8

Attention: Kevin Freeman

Re: Engineering Service – Parking Justification Study

2350-2360 Bristol Circle, Town of Oakville

Our Project No. NT-23-112

1.0 INTRODUCTION

Nextrans Consulting Engineers (A Division of NextEng Consulting Group Inc.) was retained by Kaneff Group (The 'Client') to undertake a Parking Justification Study in support of a Zoning By-law Amendment Application. The subject site is located at the northwest corner of Bristol Circle and Brighton Road, municipally known as 2350-2360 Bristol Circle, in the Town of Oakville (the 'Town'). The location of the subject site is illustrated in **Figure 1-1** below.

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Figure 1-1 – Subject Site Location

Source: Google Maps

The subject site is currently occupied by an office building with the southeast portion of land being vacant. Based on the site plan prepared by Pearce McCluskey Architects and information received from the Client, the development proposal is to develop the southeast portion of lands into a single storey warehouse building. There are a total of 127 vehicular parking spaces on-site and is shared with the adjacent office building to the north. The purpose of this parking study is to justify the provision of 127 shared vehicular parking spaces between the existing office building and proposed warehouse building. The existing site plan is illustrated in **Figure 1-2** and provided in full detail in **Appendix A**.

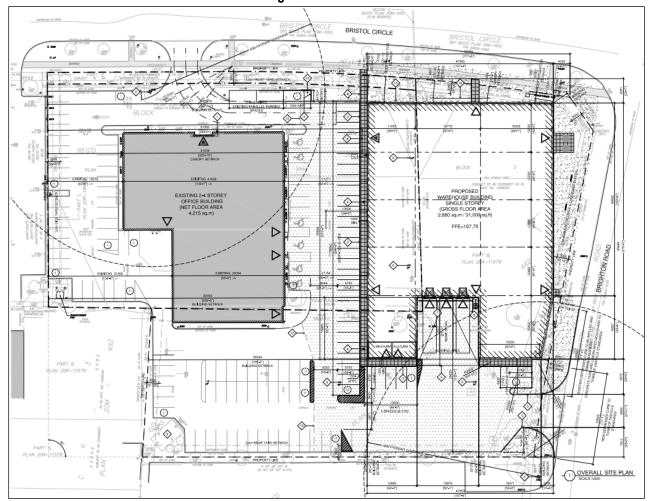


Figure 1-2 - Site Plan

2.0 PARKING BY-LAW REQUIREMENTS

2.1 Town of Oakville Zoning By-law 2014-014

The proposed redevelopment is subject to the parking requirements as provided within the Town of Oakville Zoning Bylaw 2014-014 is in effect for the subject lands. The vehicle parking requirements for the proposed development are detailed in **Table 2.1**.

Table 2.1 - Town of Oakville Zoning By-law 2014-014

Туре	Net Floor Area	Parking Rate	Parking Requirement	Parking Provided	Surplus / Deficit
Warehousing	2,880 m ²	1 space / 100 m ² of NFA for the first 7,500 m ²	29 spaces	127 spaces	+98
Tota	ıl	-	29 spaces		

In accordance with Zoning By-law 2014-014, the proposed warehouse requires 29 vehicular parking spaces. In comparing the parking requirement with the proposed provision of 127 spaces, there is a technical surplus of 98 parking spaces. The proposed development seeks to share the existing parking lot with the existing office building, therefore a parking utilization survey for the existing office building was conducted and detailed below.

3.0 PARKING UTILIZATION SURVEY & PARKING ASSESSMENT

To quantify peak demand characteristics for the existing office building, NexTrans Consulting Engineers conducted parking utilization surveys at the existing office building at 2350-2360 Bristol Circle. The selected survey methodologies (i.e. date and duration) were selected to reflect the anticipated peak operational parking demand for the existing office use. The parking utilization surveys were conducted on Wednesday May 24, 2023, Thursday, May 25, 2023, Tuesday May 30, 2023 and Thursday June 1, 2023 from 8:00 AM to 6:00 PM. The selected survey days were selected to reflect the anticipated peak parking demand for the existing office use. The utilization rates for on-site parking were calculated based occupied GFA of the existing office building. Detailed information is provided in **Table 3.1**, **Table 3.2**, **Table 3.3**, and **Table 3.4**.

Table 3.1 – Parking Utilization Survey Results (Wednesday, May 24, 2023)

Time Period (Starting)	2350-2360 Bristol Circle Parking Demand	Surplus / Deficit	Occupied GFA Utilization Rate (spaces per 100 m²)
Supply	177 spaces		
Occupied GFA	3,191.7 m ²		
8:00 AM	9	+168	0.3
8:30 AM	24	+153	0.8
9:00 AM	45	+132	1.4
9:30 AM	57	+120	1.8
10:00 AM	62	+115	1.9
10:30 AM	65	+112	2.0
11:00 AM	63	+114	2.0
11:30 AM	62	+115	1.9
12:00 PM	63	+114	2.0
12:30 PM	60	+117	1.9
1:00 PM	61	+116	1.9
1:30 PM	63	+114	2.0
2:00 PM	67	+110	2.1
2:30 PM	66	+111	2.1
3:00 PM	63	+114	2.0
3:30 PM	57	+120	1.8
4:00 PM	54	+123	1.7
4:30 PM	50	+127	1.6
5:00 PM	31	+146	1.0
5:30 PM	14	+163	0.4
6:00 PM	8	+169	0.3
6:30 PM	9	+168	0.3
7:00 PM	24	+153	0.8
7:30 PM	45	+132	1.4
8:00 PM	57	+120	1.8
Peak	67	+110	2.1 spaces per 100 m ²

Table 3.2 – Parking Utilization Survey Results (Thursday, May 25, 2023)

Time Period (Starting)	2350-2360 Bristol Circle Parking Demand	Surplus / Deficit	Occupied GFA Utilization Rate (spaces per 100 m²)
Supply	177 spaces		
Occupied GFA	3,191.7 m ²		
8:00 AM	4	+173	0.1
8:30 AM	13	+164	0.4
9:00 AM	19	+158	0.6
9:30 AM	25	+152	0.8
10:00 AM	36	+141	1.1
10:30 AM	41	+136	1.3
11:00 AM	42	+135	1.3
11:30 AM	46	+131	1.4
12:00 PM	43	+134	1.3
12:30 PM	36	+141	1.1
1:00 PM	32	+145	1.0
1:30 PM	35	+142	1.1
2:00 PM	33	+144	1.0
2:30 PM	34	+143	1.1
3:00 PM	33	+144	1.0
3:30 PM	36	+141	1.1
4:00 PM	37	+140	1.2
4:30 PM	32	+145	1.0
5:00 PM	29	+148	0.9
5:30 PM	15	+162	0.5
6:00 PM	6	+171	0.2
6:30 PM	4	+173	0.1
7:00 PM	13	+164	0.4
7:30 PM	19	+158	0.6
8:00 PM	25	+152	0.8
Peak	46	+131	1.4 spaces per 100 m ²

Table 3.3 – Parking Utilization Survey Results (Tuesday, May 30, 2023)

Time Period (Starting)	2350-2360 Bristol Circle Parking Demand	Surplus / Deficit	Occupied GFA Utilization Rate (spaces per 100 m²)
Supply	177 spaces		
Occupied GFA		3,191.7 m ²	
8:00 AM	4	+173	0.1
8:30 AM	12	+165	0.4
9:00 AM	18	+159	0.6
9:30 AM	26	+151	0.8
10:00 AM	31	+146	1.0
10:30 AM	43	+134	1.3
11:00 AM	36	+141	1.1
11:30 AM	36	+141	1.1
12:00 PM	33	+144	1.0
12:30 PM	33	+144	1.0
1:00 PM	29	+148	0.9
1:30 PM	27	+150	0.8
2:00 PM	27	+150	0.8
2:30 PM	29	+148	0.9
3:00 PM	27	+150	0.8
3:30 PM	24	+153	0.8
4:00 PM	23	+154	0.7
4:30 PM	21	+156	0.7
5:00 PM	19	+158	0.6
5:30 PM	11	+166	0.3
6:00 PM	5	+172	0.2
6:30 PM	4	+173	0.1
7:00 PM	12	+165	0.4
7:30 PM	18	+159	0.6
8:00 PM	26	+151	0.8
Peak	43	+134	1.3 spaces per 100 m ²

Table 3.4 – Parking Utilization Survey Results (Thursday, June 1, 2023)

Time Period (Starting)	2350-2360 Bristol Circle Parking Demand	Surplus / Deficit	Occupied GFA Utilization Rate (spaces per 100 m²)
Supply	177 spaces		
Occupied GFA		3,191.7 m ²	
8:00 AM	24	+153	0.8
8:30 AM	37	+140	1.2
9:00 AM	48	+129	1.5
9:30 AM	56	+121	1.8
10:00 AM	58	+119	1.8
10:30 AM	63	+114	2.0
11:00 AM	65	+112	2.0
11:30 AM	61	+116	1.9
12:00 PM	64	+113	2.0
12:30 PM	56	+121	1.8
1:00 PM	53	+124	1.7
1:30 PM	53	+124	1.7
2:00 PM	54	+123	1.7
2:30 PM	53	+124	1.7
3:00 PM	54	+123	1.7
3:30 PM	56	+121	1.8
4:00 PM	53	+124	1.7
4:30 PM	47	+130	1.5
5:00 PM	37	+140	1.2
5:30 PM	17	+160	0.5
6:00 PM	11	+166	0.3
6:30 PM	24	+153	0.8
7:00 PM	37	+140	1.2
7:30 PM	48	+129	1.5
8:00 PM	56	+121	1.8
Peak	65	+112	2.0 spaces per 100 m ²

The parking utilization survey results show peak parking demands at the subject site of 67 spaces on Wednesday, May 24, 2023, 46 spaces on Thursday, May 25, 2023, 43 spaces on Tuesday, May 30, 2023, and 65 spaces on Thursday, June 1, 2023. Based on the existing occupied GFA of the existing office building, 3,191.7 m², the peak utilization rates were determined to be 2.1 spaces per 100 m² of occupied GFA, 1.4 spaces per 100 m² of occupied GFA, 1.3 spaces per 100 m² of occupied GFA and 2.0 spaces per 100 m² of occupied GFA on Wednesday, May 24, 2023, Thursday, May 25, 2023, Tuesday, May 30, 2023, and Thursday, June 1, 2023, respectively.

3.1. Future Parking Demand

The future parking demand of the existing office building was forecasted based on an existing peak utilization rate determined at the subject site. The peak utilization rate was applied to the GFA of the entire building to represent 100% occupancy and to determine the future parking demand.

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future parking demand = 100\% occupancy GFA × peak utilization rate at subject site

= 4,215 sq. m × 2.1 spaces per 100 sq. m of GFA

= 88.52

future parking demand = 89 spaces
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Based on the observed peak utilization rate, the expected peak future demand with 100% occupancy rate is 89 parking spaces. In comparing the expected peak future demand with 100% occupancy of 89 parking spaces and the By-law requirement of 29 parking spaces, the total expected peak demand of the existing office building and the proposed warehouse building is 118 spaces. In comparing the future peak demand of the subject and the proposed parking supply of 127 spaces, there is a surplus of nine (9) parking spaces. Therefore, the proposed provision of 127 parking spaces is adequate to accommodate all existing and proposed uses on-site.

4.0 TRANSPORTATION MODE ASSESSMENT

4.1. Transit Mode Assessment

Based on the study prepared by the Ministry of transportation of Ontario (MTO) entitled: 'Transit Supportive Guidelines', dated January 2012, transit users are generally willing to walk 400 meters to a local stop or 800 meters to a transit station. The subject site is situated in a transit supportive area with three (3) bus routes located approximately a less than five (5)-minute walk to the subject site, which is within comfortable walking distance. The route services in the immediate area are described below:

- MiWay 45 Winston Churchill The 45 Winston Churchill bus operates between Meadowvale Town Centre
 Bus Terminal and Clarkson GO Station, generally in a north-south direction. This route operates with headways
 of approximately 20 minutes during weekday AM and PM peak periods. The closest bus stop is located at the
 intersection of Winston Churchill Boulevard and Dover Gate / Homelands Drive and is a two (2)-minute walk
 (approximately 180 m) from the subject site.
- Oakville Transit 6 Upper Middle The 6 Upper Middle bus route operates between the intersection of Laird Road / Ridgeway Drive and Bronte GO Station, generally in an east-west direction. This route operates with headways of approximately 30 minutes during weekday AM and PM peak periods. The closest bus stop is fronting the subject site and is less than a one (1)-minute walk (approximately 20 m) from the subject site.
- Oakville Transit 12 Winston Park The 12 Winston Park bus route operates between the intersection of Laird Road / Ridgeway Drive and Clarkson GO Station, generally in an east-west direction. This route operates with headways of approximately 30 minutes during weekday AM and PM peak periods. The closest bus stop is fronting the subject site and is less than a one (1)-minute walk (approximately 20 m) from the subject site.

4.2. Active Transportation Mode Assessment

Sidewalks

Currently, concrete sidewalks available as follows:

- On the south side of Brighton Road;
- On the west side of Bristol Circle;
- On the south side Dover Gate; and,
- On both sides of Winston Churchill Boulevard.

In addition, a complete network of sidewalks is available near the subject site, adequately maintained, and no improvements are required at this time.

Cycling

Currently, there are bike lanes along Bristol Circle, fronting the subject site.

Existing active transportation facilities and transit provisions are illustrated in Figure 4-1.

Figure 4-1 – Sidewalk and Transit Provisions in Subject Area

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Godd Code

Application of the Code Code

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The area surrounding the subject site offers ample transit and active transportation provisions, which can encourage visitors and employees to utilize alternative modes of transportation. Encouraging and promoting alternative modes of transportation results in a reduction in single occupant vehicles, and thus the traffic and parking demands of the proposed development.

5.0 CONCLUSION

The subject site is currently occupied by an office building with the southeast portion of land being vacant. Based on the site plan prepared by Pearce McCluskey Architects and information received from the Client, the development proposal is to develop the southeast portion of lands into a single storey warehouse building. There are a total of 127 vehicular parking spaces on-site and is shared with the adjacent office building to the north. The purpose of this parking study is to justify the provision of 127 shared vehicular parking spaces between the existing office building and proposed warehouse building.

In accordance with Zoning By-law 2014-014, the proposed warehouse requires 29 vehicular parking spaces. In comparing the parking requirement with the proposed shared provision of 127 spaces, there is a technical surplus of 98 parking spaces. The proposed development seeks to share the existing parking lot with the existing office building, therefore a parking utilization study for the existing office building was conducted.

The parking utilization survey results show peak parking demands at the subject site of 67 spaces on Wednesday, May 24, 2023, 46 spaces on Thursday, May 25, 2023, 43 spaces on Tuesday, May 30, 2023, and 65 spaces on Thursday, June 1, 2023. Based on the existing occupied GFA of the existing office building, 3,191.7 m², the peak utilization rates were determined to be 2.1 spaces per 100 m² of occupied GFA, 1.4 spaces per 100 m² of occupied GFA, 1.3 spaces per 100 m² of occupied GFA and 2.0 spaces per 100 m² of occupied GFA on Wednesday, May 24, 2023, Thursday, May 25, 2023, Tuesday, May 30, 2023, and Thursday, June 1, 2023, respectively.

Based on the observed peak utilization rate, the expected peak future demand with 100% occupancy rate is 89 parking spaces. In comparing the expected peak future demand with 100% occupancy of 89 parking spaces and the By-law requirement of 29 parking spaces, the total expected peak demand of the existing office building and the proposed warehouse building is 118 spaces. In comparing the future peak demand of the subject and the proposed parking supply of 127 spaces, there is a surplus of nine (9) parking spaces. Therefore, the proposed provision of 127 parking spaces is adequate to accommodate all existing and proposed uses on-site.

We trust the enclosed sufficiently addresses your needs. Should you have any questions, please do not hesitate to contact the undersigned.

Yours truly,

NEXTRANS CONSULTING ENGINEERS

A Division of NextEng Consulting Group Inc.

Prepared by:

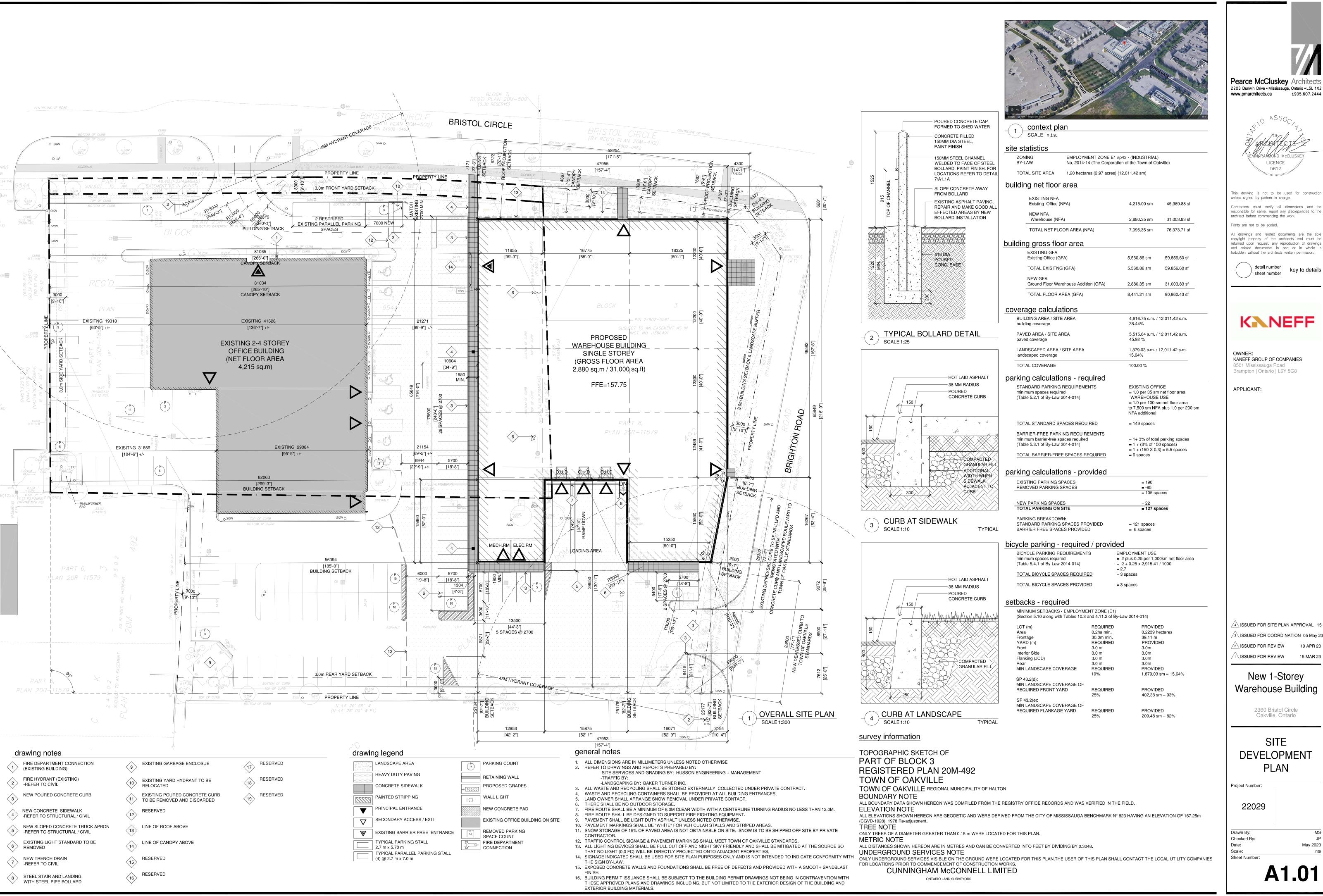
Marc Dimayuga Transportation Analyst

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Approved By:

Richard Pernicky, MITE Principal

Appendix A - Proposed Site Plan



Pearce McCluskey Architects 2203 Dunwin Drive - Mississauga, Ontario - L5L 1X2 www.pmarchitects.ca t.905.607.2444

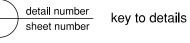


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OWNER: KANEFF GROUP OF COMPANIES 8501 Mississauga Road Brampton | Ontario | L6Y 5G8

APPLICANT:

 $\sqrt{4}$ ISSUED FOR SITE PLAN APPROVAL 15 06 23 3\ ISSUED FOR COORDINATION 05 May 23 2\ISSUED FOR REVIEW

New 1-Storey Warehouse Building

2360 Bristol Circle Oakville, Ontario

SITE DEVELOPMENT PLAN

Drawn By: Checked By: May 2023