BURNSIDE

50 Speers Road, Oakville ON
Preliminary (Rezoning/OPA)
Solid Waste Management Plan v2

Helberg Properties Limited c/o
Arcanos Property Management Corporation
235 Carlaw Avenue, Suite 403
Toronto ON M4M 2S1

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Revision	Date	Description
0	October 13, 2022	Submission to Client
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R.J. Burnside & Associates Limited

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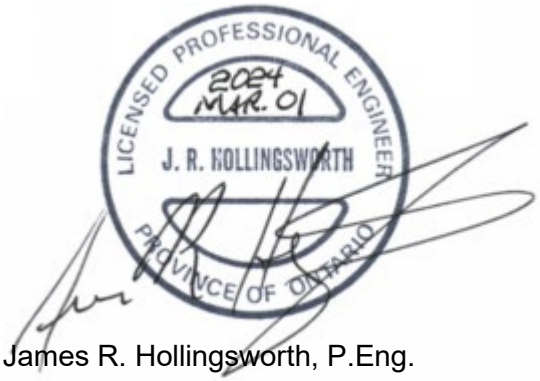

James R. Hollingsworth, P.Eng.
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1.0 Introduction

This document describes the Preliminary Solid Waste Management Plan (plan) developed for the proposed 50 Speers Road multi-residential development located in the Town of Oakville, Ontario. This plan is intended for municipal review during the Zoning By-Law Amendment (ZBLA) process. The development's Site Plan may change during the ZBLA process and prior to Site Plan Approval (SPA) / construction, though it is currently expected that the methods of handling solid waste as expressed in this report will not require revision. This report will be developed further during SPA, featuring further specifics and operational detail.

This report is based on the BDP Quadrangle 'Issued for OPA/ZBLA Resubmission v2' drawing set, dated February 2024. The 'Context, Site Plan & Statistics' (#A101.S), as well as the 'Ground Floor Plan' (#A201.S) from this set have been attached to this report as Appendix A. It describes the solid waste handling for both residents and property management staff perspectives.

The 50 Speers Road development covers a gross site (property) area of 4,180 m^2. The development is a 27-storey multi-residential building, which includes:

- 330 residential units, including 13 townhome style units on the ground floor.
- Three levels of underground parking.
- A ground floor waste storage room.
- A ground floor waste loading area (including staging area).

In preparing this report, Burnside has considered the following Halton Region documents:

- Development Design Guidelines for Source Separation of Solid Waste, Regional Official Plan Guidelines, dated June 2014.
  - Direct communications with Halton's Multi-Residential Waste Diversion Coordinator.[1]
- By-law No's. 123-12, 88-15.

Halton's Development Design Guidelines for Source Separation of Solid Waste document, hereinafter referred to as the 'Guidelines', outline the requirements to obtain approval for municipal collection services. Following the Guidelines provides some flexibility to address future solid waste management needs and programs. In addition, Halton's municipal waste collection services are preferred over private services when considering long term operating costs for the development.

[1] Not specific to the 50 Speers Road development.

2.0 Waste Management System Requirements

2.1 Waste Storage Room

Current plans provide a waste storage room on the ground floor. We assume this will carry through to final design and construction. The waste storage room could be moved to the underground parking levels with minimal changes, the primary change being the need to use a tractor or 'front-lift-bin mover' to shuffle the waste containers between the underground level waste storage room and the loading area on the ground floor.

The development will feature the following residential waste collection system:

- A single-chute system, accessible on each residential floor (beginning at Level 2), will be used to deliver the waste to the waste storage room:
  - Controls at the chute access include an interlock to prevent simultaneous access and access during maintenance.
- A tri-sorter will be installed on the chute (in the waste storage room) to direct the waste into a container for recycling (blue-box), organics, or garbage.
- A compactor will minimize the number of bins required for garbage storage.
- 10 m^2 of contiguous space for the storage of bulky wastes will be included in its own storage room, also located on the ground floor.
- The waste storage room will be locked and inaccessible to residents.
- The development features 13 ground floor townhouse suites that will not have access to the chute system for their waste. These residents will dispose of their wastes into carts within the 'TH Garbage Drop-Off' room on the ground floor, located across the hall from the waste storage room.
  - Carts (expected to be 360 L/95-gallon capacity or similar) will be available to collect waste. Property staff will transfer waste from this room to bins in the waste storage room, as necessary.
  - For the recycling waste stream, the carts will be dumped into the front-lift bins regularly. A cart tipper[2] will be used to assist maintenance staff with this task. Use of a cart tipper will reduce the likelihood of workplace accidents and reduce strain on maintenance staff.
  - For the garbage stream, front-lift bins will need to be 'pre-loaded' using the cart tipper to empty the cart into an empty garbage bin. The garbage bin can then be connected to the compactor to be filled. This is expected to occur every time an empty (mostly) front-lift bin is connected to the compactor.

[2] A cart tipper such as one from Vestil Manufacturing Corp. or similar will be used (example, https://www.vestil.com/product.php?FID=227, accessed February 2024).

- For the organics stream, containers will simply be replaced should 360 L carts be used. If smaller bins are present servicing the through the wall chutes, they will be emptied within carts using a cart tipper (as noted for recyclables).

The front-load bins and semi-automated carts used to store materials will have castors/wheels to allow maintenance staff to move the bins as required.

2.2 Equipment Requirements

The chute will lead waste into the waste storage room. A tri-sorter will be installed on the bottom of the chute. The tri-sorter will feed:

- 4 yd^3 front load bins for recycling;
- 360 L semi-automated carts for organics; and
- A compactor that loads 3 yd^3 front load bins for garbage.

Recyclables and garbage will be collected by the Region separately on different days each week. Garbage may be collected twice weekly while recyclables and organics will only be collected once per week.

Table 1 outlines the equipment requirements for the residential waste storage room. Maintenance staff will check the bins daily to ensure those reaching capacity are exchanged for empty units. Carts accepting townhome wastes will also be checked and emptied as necessary into bins, as described in Section 2.1. Trained maintenance staff will control access to the waste storage room as there are safety concerns associated with the chutes and the garbage compactor.

Burnside has based our waste storage containers (bin counts) on details provided by Halton Region via direct communications[3]:

a) Recycling:
   - 42 units per 3 yd^3 front-end bin (loose).
   - 56 units per 4 yd^3 front-end bin (loose).

b) Organics:
   - Halton Guideline 1.8.1.3.2 requires one 360 L (0.34 yd^3) organics bin for every 25 residential units.
   - To ensure flexibility, the development could instead use two, 2 yd^3 bins. Burnside has confirmed that the current waste storage room and loading area can accommodate this change (if collected separately).

[3] Garbage and recycling bin ratios were provided via email by Halton Region's Multi-Residential Waste Diversion Coordinator, Andrew Suprun, on March 22, 2022. These values replace those in the Guidelines.

c) Garbage (compacted):

- 54 units per 3 yd^3 front-end bin (compacted).
- 72 units per 4 yd^3 front-end bin (compacted).

Table 1: Residential Waste Storage Room Equipment & Spatial Requirements

Equipment	No. Required	Area Needed	Collection Frequency
Tower – level 2 and above†			
Waste Chute & Controls (activates Trisorter)	1		
Trisorter (Directs wastes to appropriate container)	1	± 5 m^2	
Compactor (Garbage stream)	1		
Recycling Bins – 4 yd^3 front load type	6†	16.7 m^2	Weekly
Organics Carts – 360 L semi-automated carts	14†	11.2 m^2	Weekly
Garbage Bins – 3 yd^3 front load, compaction type	7†	15.9 m^2	Weekly
Townhomes – ground level access‡			
360 L semi-automated carts (or smaller)	3	2.4 m^2	
Cart Tipper	1	± 2 m^2	
Bulky Waste Storage Area		10 m^2	As Required
Container Movement/Jockeying Space§		25%	
Total Waste Storage Room Area Needs		80 m^2	

Notes:
† The room sizing provides flexibility to store extra containers to allow service while bins await collection in loading area. Extra bins have not been shown in table.
‡ Townhome recycling and garbage carts are transferred as required into tower recycling or garbage bins. Organics carts do not need to be transferred, merely replaced with empty (tower) carts.
§ Estimated area required to move bins and carts within the waste storage room. Room configuration can impact this value.

The total space needed for waste containers, equipment, Bulky Waste Storage Area and maneuvering within the room is estimated to be 80 m^2. The current design for the waste storage room accommodates this space. The additional space provides flexibility to accommodate future waste management needs.

3.0 Waste Loading

Recyclables, organics, and garbage will be collected in one Loading Area, located on the ground level. Maintenance staff will be available during collection to maneuver bins. The method which bins will be collected is outlined in Section 3.1 below.

3.1 Collection Method

On each waste stream's collection day, prior to 7:00 AM, maintenance staff will move the bins in the following manner:

1. The stream's bins will be moved out of the waste storage room, through the overhead door to the adjacent loading/staging area.

2. Bins will be moved into the loading area to the lefthand (south) side of the staging area.

Bins will require maintenance staff assistance during collection. When the collection truck arrives, collection will be facilitated in the following manner:

1. Staff will bring a full bin from the left (south) side of the staging area to the front of the truck for tipping (in a designated area in front of the vehicle).

2. After the bin is emptied, staff will remove the emptied bin from the front of the truck, moving it to the right (north) side of the staging area.

3. Staff will then bring the next full bin to the front of the truck so it can be tipped. This will continue until all bins are tipped and positioned on the right (north) side of the staging area.

The positioning of bins in the staging area before and after collection has been illustrated in Drawing No. VMD-01 of Appendix B. Maintenance staff may use a trash bin mover[4] for ease of moving bins. Maintenance staff will assist in moving the bins, so the waste collection vehicle does not have to move during collection. Once all bins are empty, staff will return it to the waste storage room.

The collection truck drive path is attached as Appendix B. The Transportation Engineer has confirmed the maneuvers are functional for Halton Region's Waste Collection vehicle.

[4] The WasteCaddy (https://www.djproducts.com/product/video-wastecaddy-efficient-trash-bin-mover/, accessed February 2024) is provided as an example.

4.0 Conclusions

From the research completed in preparing this report, Burnside believes that the 50 Speers Road multi-residential development can successfully operate using Halton Region's waste management services. Further, the development's design provides the flexibility required to address future solid waste management systems.

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BURNSIDE

[THE DIFFERENCE IS OUR PEOPLE]

Appendix A

Site Plan and Statistics

BDP. Quadrangle

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50 Speers Road

Oakville, ON

for
Helberg Properties Limited

Project No. 20023
Date 2024-02-23
Issued for Issued for OPA/ZBLA Resubmission v2

ARCHITECTURAL DRAWINGS

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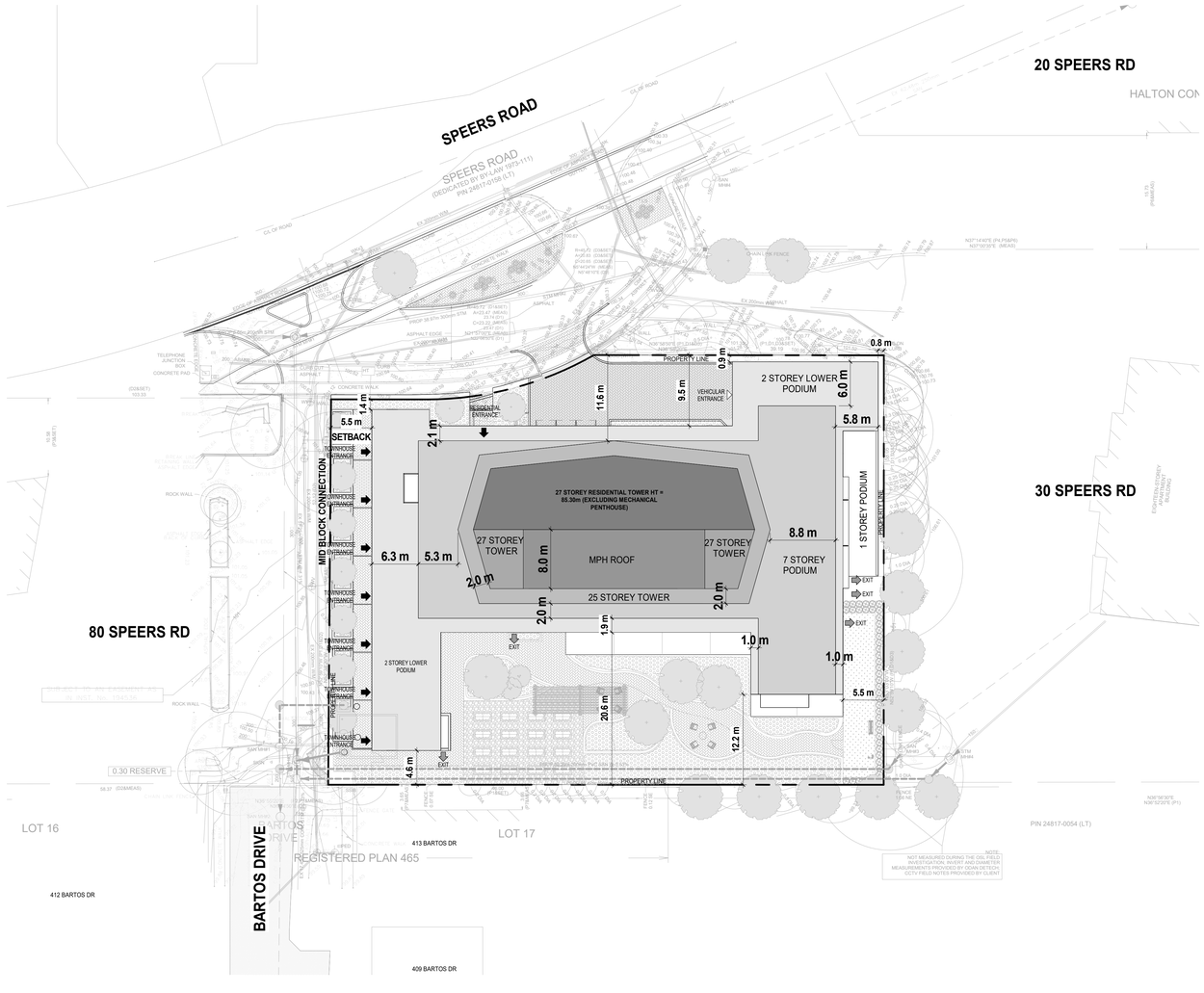
5 A101.S Context Plan



4 A101.S SITE PLAN
SCALE: 1 : 300

	Floor	Gross Building Area	2014-014 Floor Area Exclusions* (sm)	Oakville By-Law 2014-014 Gross Floor Area	Bach	1B	2B	3B	3B-2ST	Total Units	Res Rentable Area (sf)	Notes:
TOWER / PODIUM	Mech Penthouse	520	520	0							0	
	27	597	72	525	0	0	6	0	0	6	4,562	
	26	597	72	525	0	2	6	0	0	8	5,359	
	25	735	79	656	0	2	7	0	0	9	6,805	
	24	735	79	656	0	2	7	0	0	9	6,805	
	23	735	79	656	0	2	7	0	0	9	6,805	
	22	735	79	656	0	2	7	0	0	9	6,805	
	21	735	79	656	0	2	7	0	0	9	6,805	
	20	769	79	691	2	6	4	0	0	12	7,172	
	19	769	79	691	2	6	4	0	0	12	7,172	
	18	769	79	691	2	6	4	0	0	12	7,172	
	17	769	79	691	2	6	4	0	0	12	7,172	
	16	769	79	691	2	6	4	0	0	12	7,172	
	15	769	79	691	2	6	4	0	0	12	7,172	
	14	769	79	691	2	6	4	0	0	12	7,172	
	13	769	79	691	2	6	4	0	0	12	7,172	
	12	769	79	691	2	6	4	0	0	12	7,172	
	11	769	79	691	2	6	4	0	0	12	7,172	
	10	769	79	691	2	6	4	0	0	12	7,172	
	9	769	79	691	2	6	4	0	0	12	7,172	
	8	769	88	682	0	2	2	0	0	4	2,665	
	7	1,417	119	1,298	1	11	6	2	0	20	13,470	
	6	1,417	119	1,298	1	11	6	2	0	20	13,470	
	5	1,417	119	1,298	1	11	6	2	0	20	13,470	
	4	1,417	119	1,298	1	11	6	2	0	20	13,470	
	3	1,417	119	1,298	1	11	6	2	0	20	13,470	
	2	2,111	156	1,955	2	3	5	0	-	10	15,929	
	Ground	2,046	589	1,458	0	0	0	0	13	13	7,579	
BELOW GRADE	P1	3,733	3,674	58.9								
	P2	3,733	3,674	58.9								
	P3	3,733	3,674	58.9								
TOTALS	Above Grade	26,631 sm		23,200 sm	31	144	132	10	13	330	222,533 sf	
		286,668 sf		249,725 sf							20,767 sm	
					9%	44%	40%	3%	4%	100%	% of Unit Type	
Site Area & FSI	Gross Site Area			4,180 sm	418	566	774	954	1329		Average Unit Size by Unit Type (SF)	
	Lot Coverage %			51%							Total Below-Grade GBA=	11,199 sm
	FSI (Net Floor Area / Gross Site Area)			5.6							Total Above + Below-Grade GBA=	37,830 sm

Floor Area: *means the aggregate area of a building contained within the exterior walls, but does not include attic or basement space*

Residential Floor Area (GBA): *means the aggregate area of a residential building containing a dwelling measured from the exterior of the outside walls, but shall not include a private garage, basement, or attic.*

Net Floor Area (GFA): **means the total area of all floors of a building measured from the interior faces of the exterior walls or demising walls, but does not include the area of stair wells, elevators, escalators, ventilation shafts, attics, concourses, washrooms, attached enclosed and covered loading docks and related enclosed corridors used for loading purposes, above and below grade parking structures, storage rooms, rooms for garbage containment and mechanical rooms.*

NOTE: *All open to below areas are included in Floor Area and Net Floor Area, unless otherwise indicated in the Notes column above.*

3 A101.S Building Statistics

VEHICULAR PARKING

Required			Units		
Residential *(0.75 space/unit <75sm NFA)*	0.75	x	285		214
Residential *(1.25 spaces/unit >75sm NFA)*	1.25	x	45		56
Visitor *(0.25 spaces/unit <75sm NFA)*	0.25	x	285		71
Visitor *(0.25 spaces/unit >75sm NFA)*	0.25	x	45		11
TOTAL REQUIRED PARKING					**352**
Provided					
Residential *(0.85 space/unit)*	0.85	x	330		280*
Visitor *(0.15 spaces/unit)*	0.15	x	330		50
TOTAL PROVIDED PARKING					**330**

	Required	Provided
Accessible Parking Spaces *(included in Total Parking)*	2	3

** Includes 1 car-share spaces*

Refer to Traffic Report prepared by BA Group, for additional information.

BICYCLE PARKING

				Required	Provided
Residential (Long-term)	(0.75/unit)	0.75	x 330	248	248
Visitor (Short-term)	(0.25/residential total)	0.25	x 330	82	82
TOTAL BICYCLES				330	330

LOADING / GARBAGE

Loading Spaces	Provided
Refer to Traffic Report prepared by BA Group, for additional information.	
Residential *(Loading Space 3.5m x 12m, 4.2m vertical clearance)*	1
TOTAL LOADING SPACES	1

Garbage Room Size	80
Bulk Waste Storage Room	10
Garbage Staging Area	24

AMENITY AREA

	Provided
Indoor Amenity	660 sm
Outdoor Amenity	1,061 sm
Level GF	

2 A101.S Parking and Amenity Stats

AB	Air barrier	
AC	Air conditioner	
AD	Area drain	
AFF	Above finish floor	
AL	Aluminum	
AN	Anodized	
AO	Automatic door operator	
AP	Acoustic panel	
APC	Architectural precast concrete	
APPROX	Approximate	
AS	Acoustic seal	
AST	Astragal	
ASTM	American Society for Testing Materials	
AT	Acoustic ceiling tile	
AVB	Air/vapour barrier	
AVG	Average	
BF	Barrier free	
BLDG	Building	
BOLF	Bollard, fixed	
BOLR	Bollard, fixed	
BR	Brick	
CACF	Central Alarm Control Facility	
CB	Catch basin	
CCMPA	Can. Concrete Masonry Producers Assos.	
CCN	Contemplated change notice	
CG	Corner guard	
CH	Coat hook	
CID	Clear inside dimension	
CIP	Cast-in-place	
CJ	Construction joint	
CL	Closet	
CLC	Closet, Concealed	
CLG	Ceiling	
CLR	Clear finish	
CLT	Closet	
CMU	Concrete masonry unit	
COL	Column	
CONC	Concrete	
CP	Communications panel	
CPT	Carpet	
CR	Card reader	
CSA	Canadian Standards Association	
CT	Ceramic tile	
C/W	Complete with	
CYL	Cylinder	
D	Depth/Deep	
DB	Dead bolt	
DC	Door contact	
DIA, ø	Diameter	
DIM	Dimension	
DN	Down	
DP	Door pull	
DPR	Door pull - recessed	
DSD	Door stop - door mounted	
DSF	Door stop - floor mounted	
DSO	Door stop - overhead recessed	
DSW	Door stop - wall mounted	
DW	Dishwasher	
DWG	Drawing	
ED	Exit device	
EIFS	Exterior insulating finish system	
EJ	Expansion joint	
ELEC	Electrical	
ELEV	Elevator	
EOS	Edge of slab	
EP	Electrical panel	
ESP	Escutcheon plate	
EQ	Equal	
EV	Electrical vehicle	
EVSE	Electrical vehicle supply equipment	
EQUIP	Equipment	
ES	Electric strike	
(E)	Existing	
(E/R)	Existing/relocated	
EXT	Exterior	
FAP	Fire alarm pull	
FC	Fan coil	
FD	Floor drain	
FFE	Fire fighter's elevator	
FFH	Fire fighter's handset	
FFL	Finished floor level	
FG	Fixed glazing	
FH	Fire hydrant	
FHC	Fire hose cabinet	
FIN	Finish	
FL	Floor	
FLUOR	Fluorescent	
FP	Fireplace	
FPL	Flush pull	
FRCG	Fire Rated Ceramic Glass	
FRR	Fire resistance rating	
FSI	Floor space index	
GA	Gauge	
GALV	Galvanized	
GB	Gypsum board	
GFA	Gross floor area	
GFI	Ground fault interrupter	
GK	Gasket	
GL	Glazing, glass	
GLB	Glass - back painted	
GLL	Glass - laminated	
GLT	Glass - tempered	
GLTF	Glass - tempered and frosted	
GLS	Glass - safety	
GLFC	Glass - fire-rated ceramic	
GRB	Grab bar	
GWG	Georgian wire glass	
H	Height/high	
HB	Hose bib	
HC	Hollow core	
HCC	Honey comb core	
HDF	High density fibreboard	
HG	Hinge	
HGPC	Hinge, centre pivot	
HGPO	Hinge, offset pivot	
HM	Hollow metal	
HP	High point	
HR	Hour	
HSS	Hollow steel section	
HTP	Heat pump	
ID	Interior design	
IFP	Intumescent fireproofing	
INSUL	Insulated, insulation	
INT	Interior	
JAN	Janitor	
KP	Kick plate	
L	Length/long	
LA	Latch	
LAV	Lavatory	
LEV	Low emitting vehicle	
LIN	Linen closet/shelves	
LN	Linoleum	
LP	Low point	
LS	Lock set	
LV	Louvre	
MAG	Magnetic lock	
MAX	Maximum	
MDF	Medium density fibreboard	
MECH	Mechanical	
MFR	Manufacturer	
MIN	Minimum	
MISC	Miscellaneous	
MLL	Millwork	
MIR	Mirror	
MO	Masonry opening	
MP	Metal panel	
MRGB	Moisture resistant gypsum board	
MTL	Metal	
MW	Microwave	
(N)	New	
N/A	Not applicable	
NBC	National Building Code	
NIC	Not in contract	
NTS	Not to scale	
OBC	Ontario Building Code	
OC	On centre	
OP	Operable panel	
OSB	Oriented strand board	
OSD	Overflow scupper drain	
PB	Push button	
PCT	Porcelain tile	
PERF	Perforated	
PLAM	Plastic laminate	
PLY	Plywood	
PNL	Panel	
PP	Push plates	
PQ	Parquet flooring	
PS	Passage set	
PT	Paint, painted	
PVC	Polyvinyl chloride	
(R)	Relocated	
R	Radius	
RB	Resilient base	
RC	Roller catch	
RD	Roof drain	
REF	Reference	
REV	Revision	
RF	Resilient flooring	
RFM	Recessed floor mat	
RH	Rangehood	
RM	Room	
RO	Rough opening	
RR	Remote release	
RVR	Reverse	
RWL	Rain water leader	
SAFB	Sound attenuation fire blankets	
SB	Site bulletin	
SBO	Supplied by others, contractor installed	
SC	Solid core	
SD	Scupper drain	
SI	Site instruction	
SG	Spandrel glass	
SIM	Similar	
SK	Skim coat	
SL	Sealer, seal	
SP	Spandrel panel	
SPT	Spray texture	
SS	Stainless steel	
SSM	Solid surface material	
ST	Stone	
STC	Sound transmission classification	
STD	Stained, stain	
STL	Steel	
STRUC	Structural	
T	Tile	
TB	Tack board	
TBD	To be determined	
TC	Traffic coating	
TD	Terrace drain	
TEL	Telephone	
TEMP	Temporary	
TER	Terrazzo	
TERR	Terrace	
TH	Threshold	
THK	Thick	
TOC	Top of curb	
TOF	Top of finish	
TOFR	Top of finished roof	
TOG	Top of grade	
TOP	Top of parapet	
TOS	Top of slab/steel	
TOW	Top of wall	
TRR	Temperature rise rating	
TT	Thumb turn	
TYP	Typical	
UH	Unit heater	
UR	Urinal	
U/S	Underside	
ULC	Underwriter's Laboratories of Canada	
UNO	Unless noted otherwise	
VB	Vapour barrier	
VCT	Vinyl composite tile	
VEST	Vestibule	
VFI	Vinyl-faced insulation	
VG	Vision glass	
VGF	Vinyl graphic film	
VNR	Veneer	
VP	Visitor's parking	
W	Width/wide	
WB	White board	
WC	Water closet	
WCV	Wall covering	
WD	Wood	
W/D	Washer/Dryer	
WIC	Walk-in closet	
WPS	Waterproof surface	
WR	Waste receptacle	
WS	Weatherstripping	
WT	Window treatment	

1 A101.S Abbreviations

SITE PLAN LEGEND

- PROPERTY LINE
- LINE OF UNDER GROUND GARAGE BELOW
- MAIN BUILDING ENTRANCE
- RETAIL ENTRANCE
- EXIT
- VEHICLE / LOADING ENTRANCE / EXIT
- FIRE HYDRANT
- SIAMESE CONNECTION
- MANHOLE COVER
- AREA DRAIN
- CATCH BASIN
- FLOOR DRAIN (PARKING SLAB)
- FLOOR DRAIN (INTERIOR)
- EXISTING LIGHT
- TYPICAL PARKING SPACE
- TYPICAL B.F. PARKING SPACE
- FINISH FLOOR ELEVATION
- EXISTING ELEVATION
- PROPOSED ELEVATION
- TOP OF ROOF
- BUILDING ENVELOPE
- FIRE ACCESS ROUTE HEAVY DUTY PAVING. ASSEMBLY TO BE DESIGNED TO MEET THE LOADS IMPOSED BY FIRE FIGHTING EQUIPMENT.
- GREEN ROOF
- TERRACE PAVERS

Date	No.	Description
Date	No.	Description

REVISION RECORD

2024-02-23	Issued for OPA/ZBLA Resubmission v2
2022-10-12	Rezoning & Official Plan Amendment

ISSUE RECORD

BDP. Quadrangle

Quadrangle Architects Limited
901 King Street West, Suite 701 Toronto, ON M5V 3H5
t 416.598.1240 www.bdpquadrangle.com

50 Speers Road

Oakville, ON

for

Helberg Properties Limited

20023	ED	AT
PROJECT SCALE	DRAWN	REVIEWED

Context, Site Plan & Statistics

A101.S

2/23/2024 10:31:42 AM

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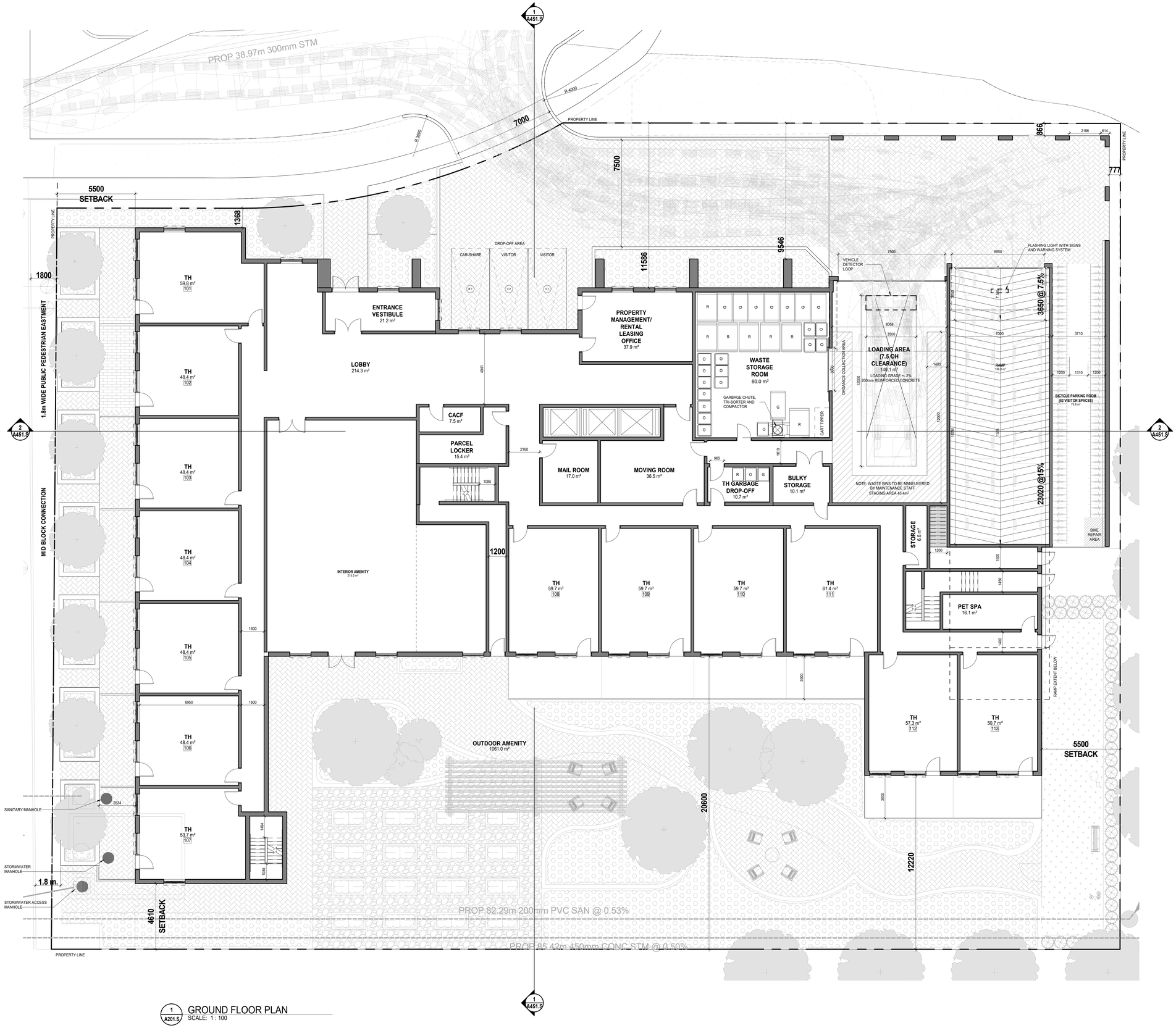

1 A201.S GROUND FLOOR PLAN
SCALE: 1 : 100

SITE PLAN LEGEND

- PROPERTY LINE
- LINE OF UNDER GROUND GARAGE BELOW
- MAIN BUILDING ENTRANCE
- RETAIL ENTRANCE
- EXIT
- VEHICLE / LOADING ENTRANCE / EXIT
- FIRE HYDRANT
- SIAMESE CONNECTION
- MH MANHOLE COVER
- AD AREA DRAIN
- CB CATCH BASIN
- FD FLOOR DRAIN (PARKING SLAB)
- FD FLOOR DRAIN (INTERIOR)
- EXISTING LIGHT
- TYPICAL PARKING SPACE
- TYPICAL B.F. PARKING SPACE
- F.F.E. FINISH FLOOR ELEVATION
- ### ### EXISTING ELEVATION
- ### ### PROPOSED ELEVATION
- 00000 TOP OF ROOF
- BUILDING ENVELOPE
- FIRE ACCESS ROUTE HEAVY DUTY PAVING. ASSEMBLY TO BE DESIGNED TO MEET THE LOADS IMPOSED BY FIRE FIGHTING EQUIPMENT.
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Oakville, ON

for
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20023 PROJECT | 1:100 SCALE | ED, VG DRAWN | AT REVIEWED

Ground Floor Plan

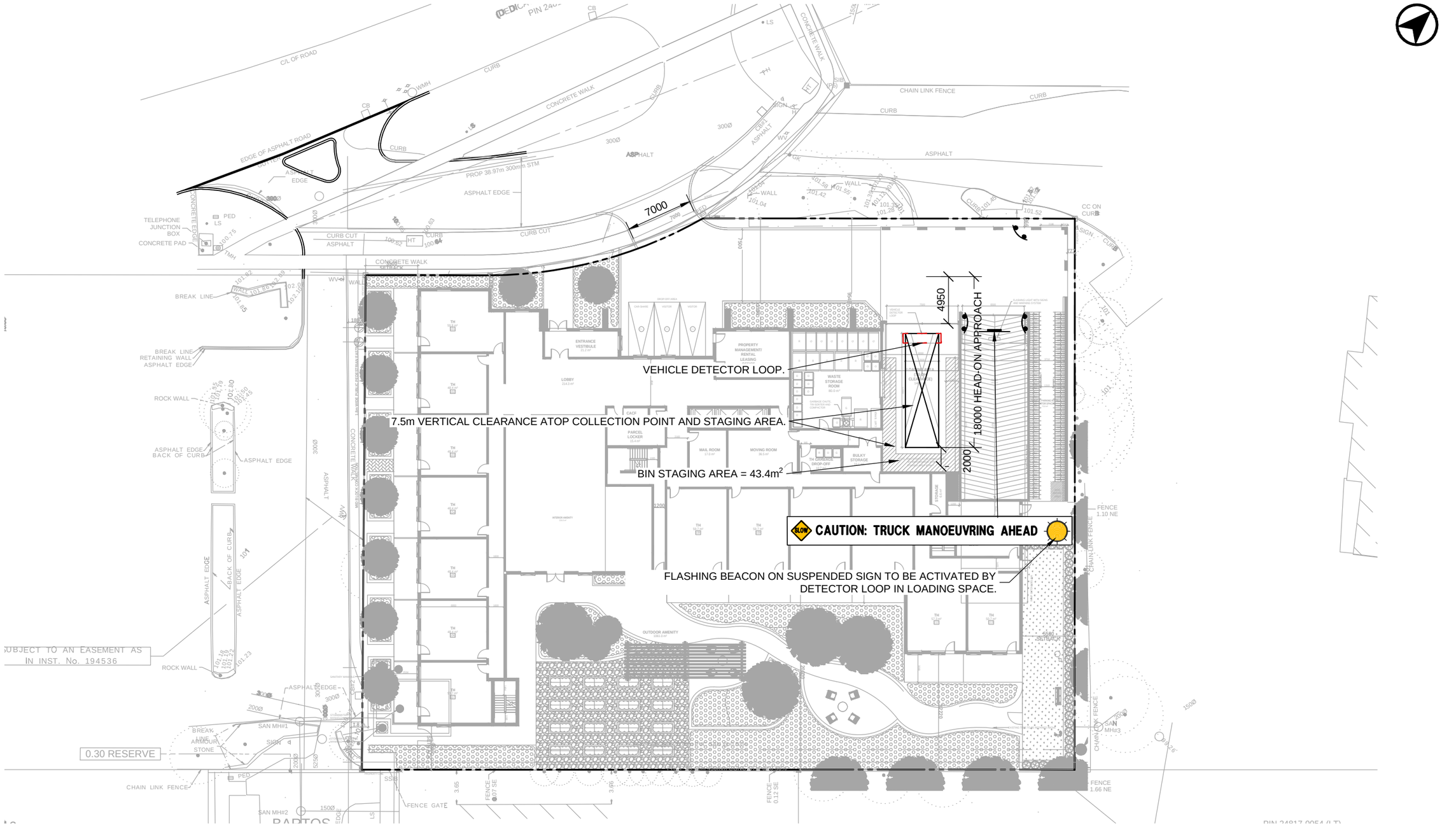
A201.S

BURNSIDE

[THE DIFFERENCE IS OUR PEOPLE]

Appendix B

Waste Collection Vehicle Turning Path Analysis



Date Plotted: February 29, 2024 Filename: J:\8013-02\BA\SPR\2024\12 - Feb27-24\BA-50 Speers Rd-SPR-12-Feb27-24-8013-02.dwg

BA Group

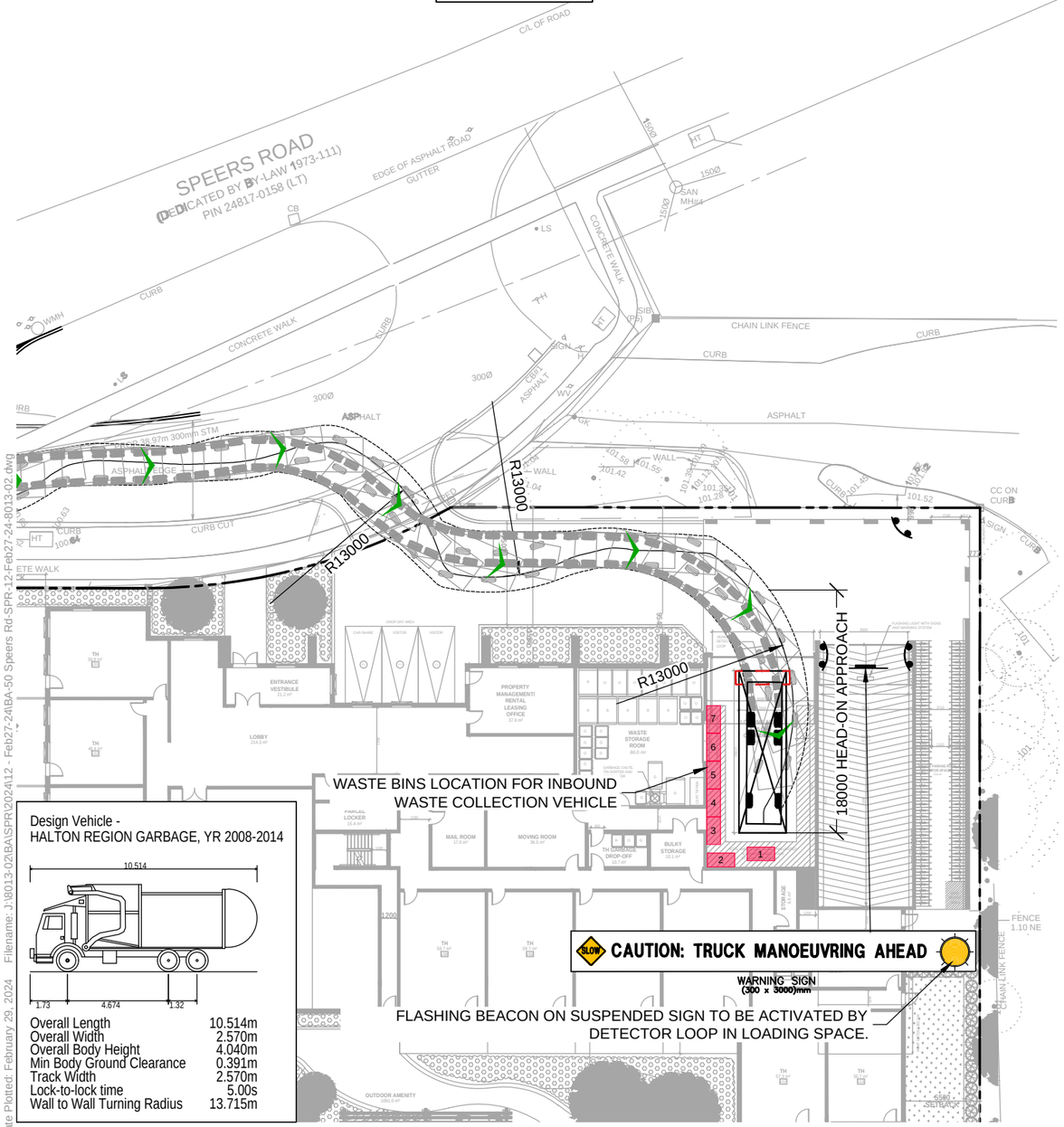
50 SPEERS ROAD
SITE PLAN REVIEW
GROUND FLOOR

Project:	50 SPEERS ROAD
Project No.	8013-02
Date:	June 7, 2022
Revised:	February 29, 2024

Scale 1:400 — 0 2 4 6 8 10 20m

Drawing No. SPR-01

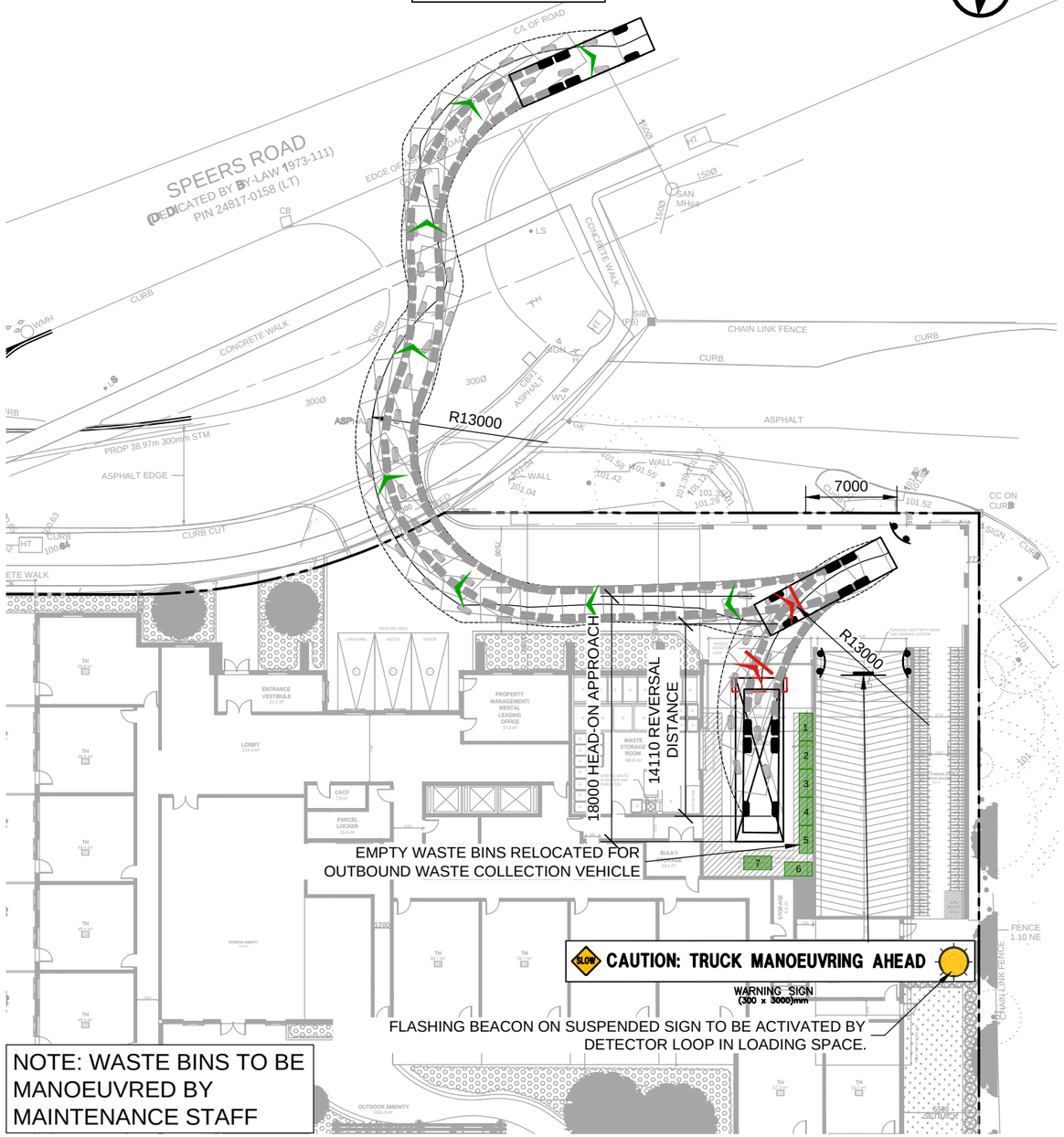
INBOUND



Design Vehicle -
HALTON REGION GARBAGE, YR 2008-2014

Overall Length	10.514m
Overall Width	2.570m
Overall Body Height	4.040m
Min Body Ground Clearance	0.391m
Track Width	2.570m
Lock-to-lock time	5.00s
Wall to Wall Turning Radius	13.715m

OUTBOUND



NOTE: WASTE BINS TO BE MANOEUVRED BY MAINTENANCE STAFF

Date Plotted: February 29, 2024 Filename: J:\8013-02\BA\SPR2024\12 - Feb27-24\BA-50 Speers Rd-SPR-12-Feb27-24-8013-02.dwg

BA Group

50 SPEERS ROAD

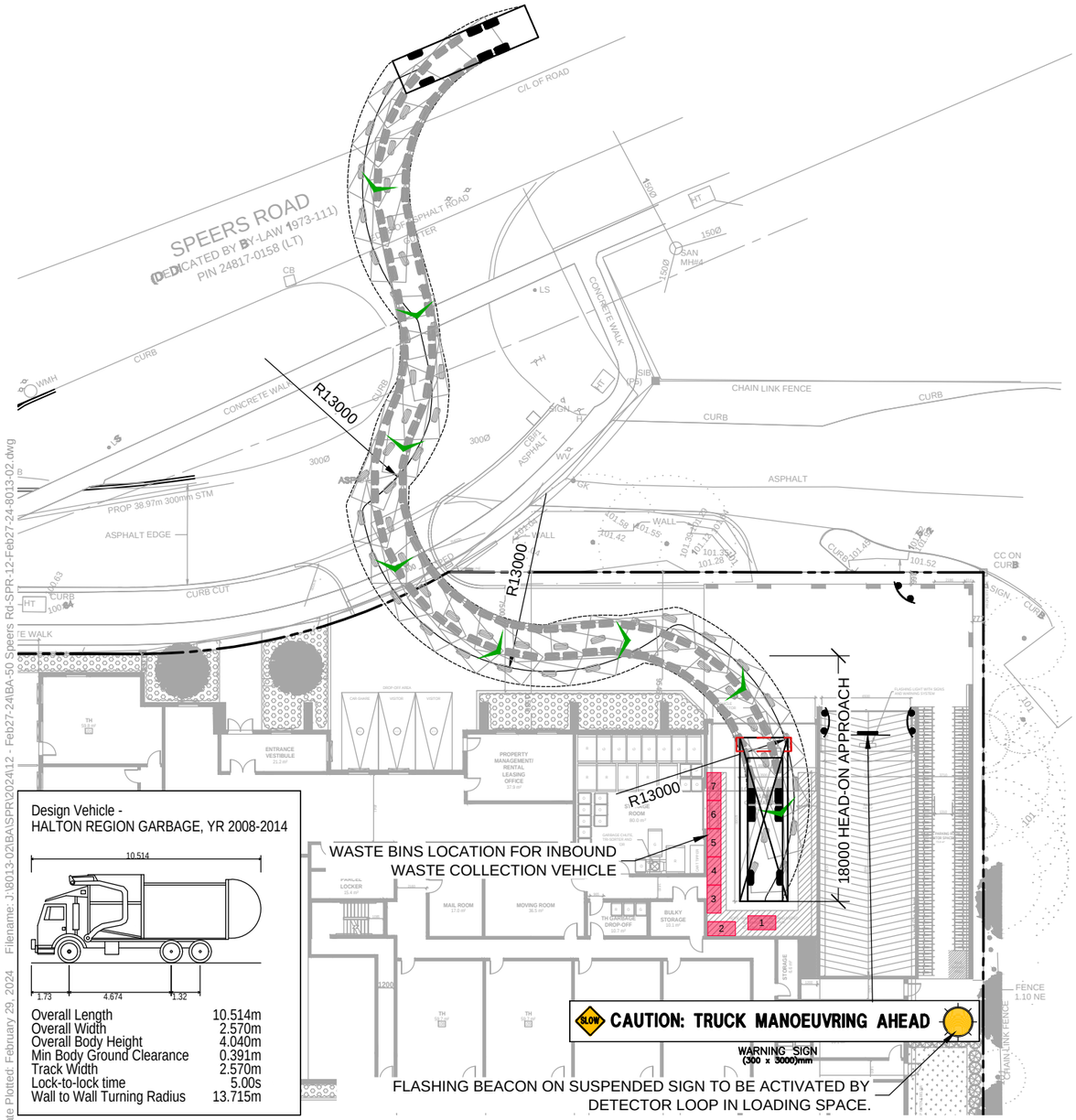
VEHICLE MANOEUVRING DIAGRAM
HALTON REGION GARBAGE TRUCK

Project:	50 SPEERS ROAD
Project No.	8013-02
Date:	June 7, 2022
Revised:	February 29, 2024

Scale 1:400 — 0 2 4 6 8 10 20m

Drawing No. VMD-01

INBOUND



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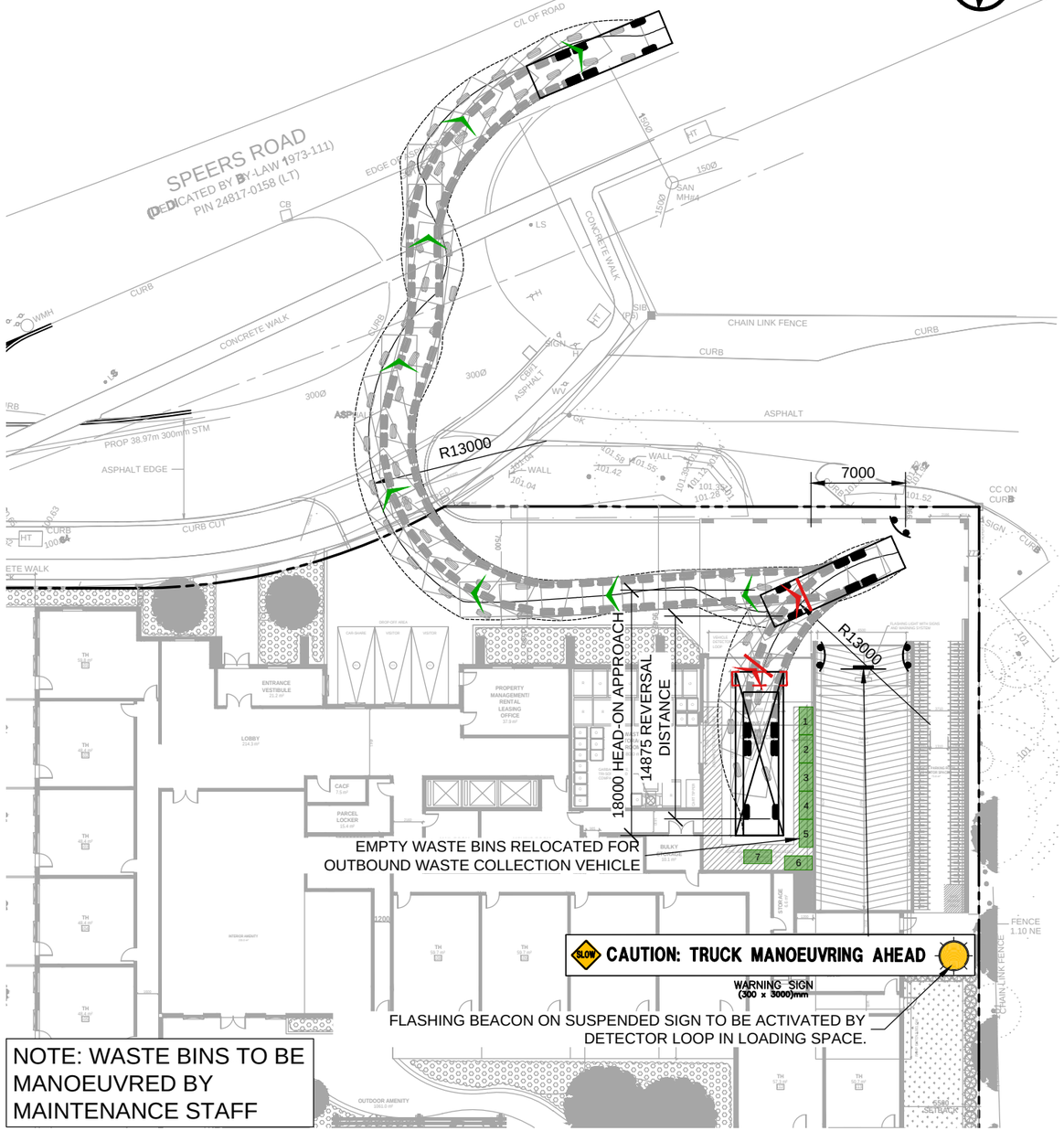
Wall to Wall Turning Radius	13.715m

OUTBOUND



NOTE: WASTE BINS TO BE MANOEUVRED BY MAINTENANCE STAFF

BA Group

50 SPEERS ROAD

VEHICLE MANOEUVRING DIAGRAM
HALTON REGION GARBAGE TRUCK
LEFT IN

Project:	50 SPEERS ROAD
Project No.	8013-02
Date:	June 7, 2022
Revised:	February 29, 2024

Scale 1:400 (0 2 4 6 8 10 20m)

Drawing No. VMD-02

Date Plotted: February 29, 2024 Filename: J:\8013-02\BA\SPR\2024\12 - Feb27-24\BA-50 Speers Rd-SPR-12-Feb27-24-8013-02.dwg

R.J. Burnside & Associates Limited