



Technical Memorandum

To: Daniel Boulanger, Director, Planning & Consulting

Date:

Feb. 5, 19

Cc:

From: Mark Crockford, P.Eng.

Project Number:

2018-72

Re: 444 Bronson Avenue – Parking Layout Turning Templates

TC United is proposing a six-storey mixed-use building at 444 Bronson Avenue. This proposed building would include two parking spaces at the rear of the building. Turning templates have been undertaken to determine the maximum size of vehicle that can enter and exit the rear parking stalls. To test this, three vehicle classes have been used including:

- Large: TAC 2017 – “P” Passenger Vehicle; roughly equivalent to an SUV or pickup truck
- Medium: MLIT (JP) – “Small-sized motor vehicle”; roughly equivalent to a sedan
- Small: TRANSOFTM – “Small Car”; roughly equivalent to a Mini Cooper or similar, small coupe

Figure 001, attached, illustrates the turning path of a large vehicle. It has been shown that the P type vehicle would have difficulty getting into either of the two spaces.

Figure 002, attached, illustrates the turning path of a medium vehicle. The medium vehicle type can access and exit both proposed parking stalls, however, a multi-point turn is required for the medium sized vehicle to exit the parking stalls.

Figure 003, attached, illustrates the turning path of a small vehicle. The small vehicle type can access and exit both proposed parking stalls. A three-point turn is required for the small vehicle type to exit the parking stalls.

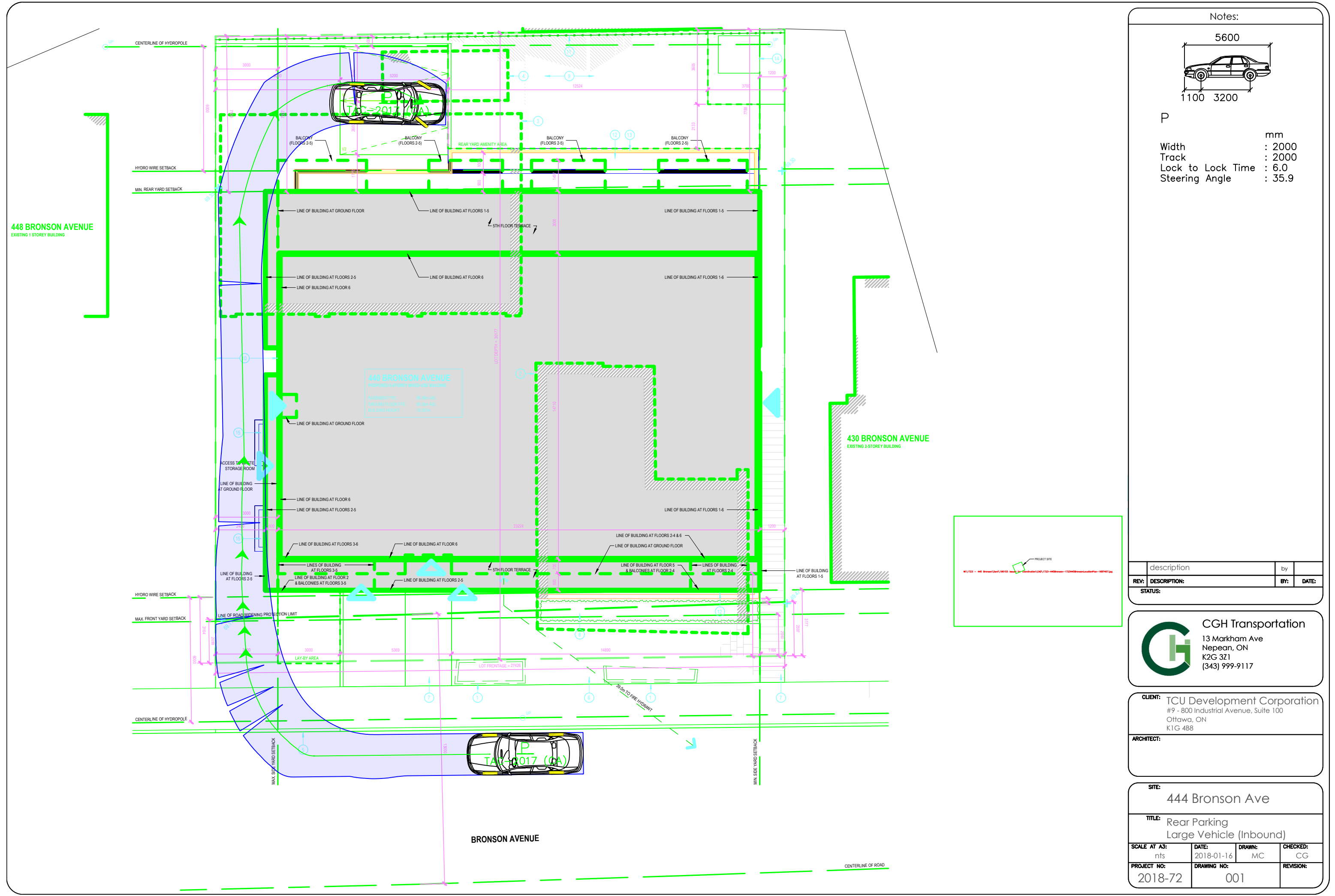
It is acknowledged that larger vehicles are not able to park in the rear of the proposed building. To prevent large vehicles from attempting to park and having to back out of the site, signage should be provided at the entrance to the parking lot indicating that parking for SUVs and Trucks is not permitted on site.

Attachments:

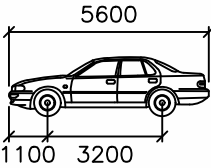
Figure 001 & 002 – Rear Parking Large Vehicle

Figure 003 & 004 – Rear Parking Medium Vehicle

Figure 005 & 006 – Rear Parking Small Vehicle



Notes:



P
Width : 2000
Track : 2000
Lock to Lock Time : 6.0
Steering Angle : 35.9

description	by	
REV: DESCRIPTION:	BY:	DATE:
STATUS:		

CGH Transportation
13 Markham Ave
Nepean, ON
K2G 3Z1
(343) 999-9117

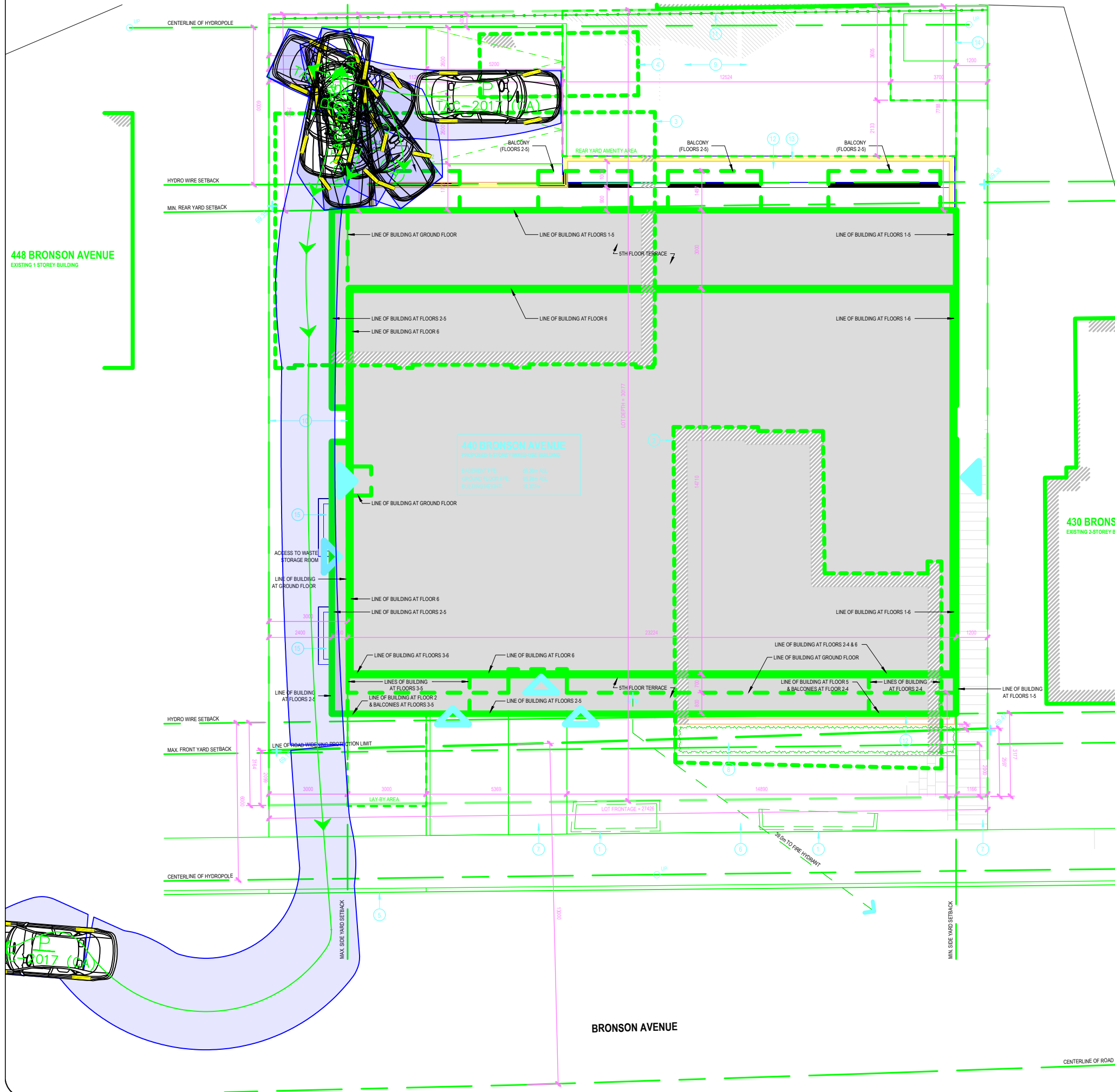
CLIENT: TCU Development Corporation
#9 - 800 Industrial Avenue, Suite 100
Ottawa, ON
K1G 4B8

ARCHITECT:

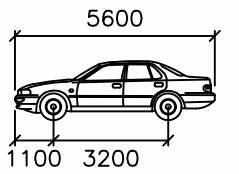
SITE:
444 Bronson Ave

TITLE:
Rear Parking
Large Vehicle (Inbound)

SCALE AT A3: n/s	DATE: 2018-01-16	DRAWN: MC	CHECKED: CG
PROJECT NO: 2018-72	DRAWING NO: 001	REVISION:	

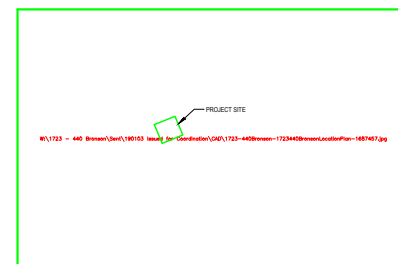


Notes:



P
Width : 2000
Track : 2000
Lock to Lock Time : 6.0
Steering Angle : 35.9

mm



description	by	
REV: DESCRIPTION:	BY:	DATE:
STATUS:		

CGH Transportation
13 Markham Ave
Nepean, ON
K2G 3Z1
(343) 999-9117

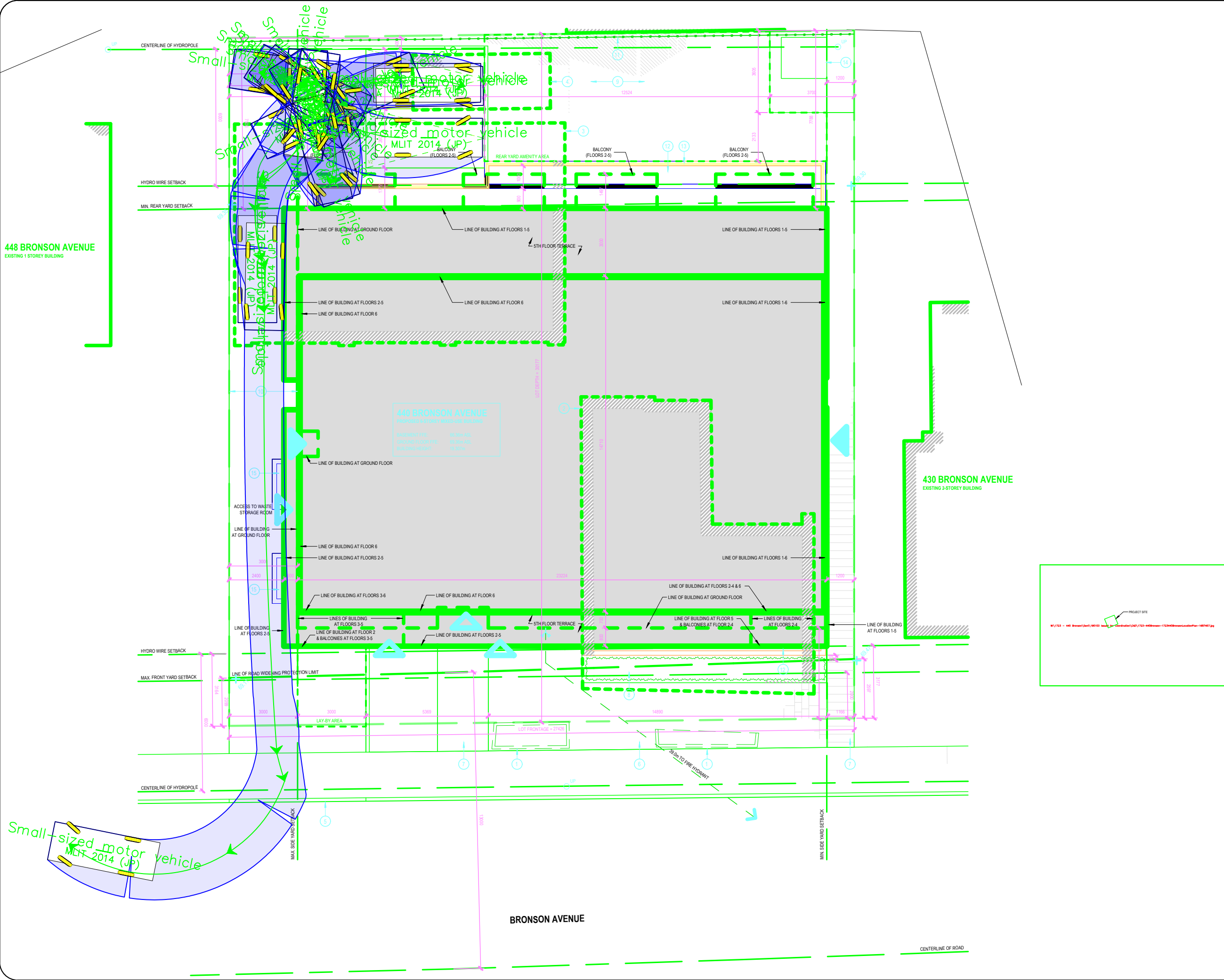
CLIENT: TCU Development Corporation
#9 - 800 Industrial Avenue, Suite 100
Ottawa, ON
K1G 4B8

ARCHITECT:

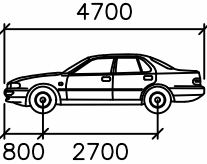
SITE:
444 Bronson Ave

TITLE: Rear Parking
Large Vehicle (Outbound)

SCALE AT A3: n/s	DATE: 2018-01-16	DRAWN: MC	CHECKED: CG
PROJECT NO: 2018-72	DRAWING NO: 002	REVISION:	



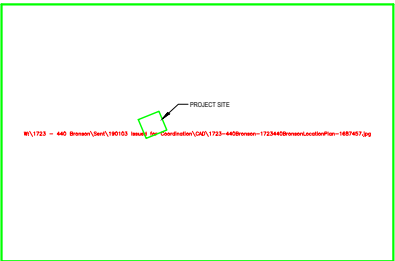
Notes:



Small-sized motor vehicle

Width : 1700
Track : 1700
Lock to Lock Time : 6.0
Steering Angle : 26.7

mm



description	by	
REV: DESCRIPTION:	BY:	DATE:
STATUS:		

CGH Transportation
13 Markham Ave
Nepean, ON
K2G 3Z1
(343) 999-9117

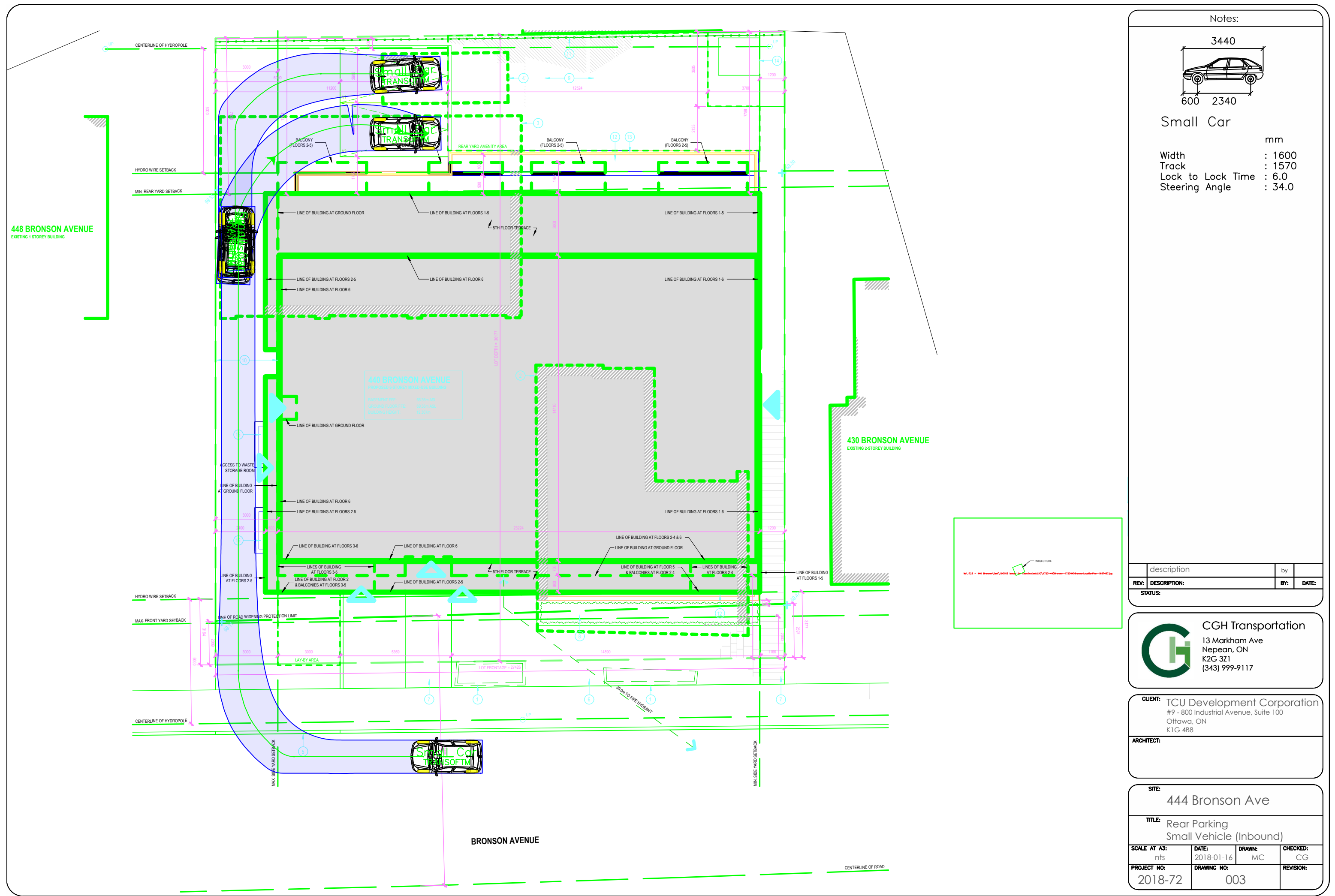
CLIENT: TCU Development Corporation
#9 - 800 Industrial Avenue, Suite 100
Ottawa, ON
K1G 4B8

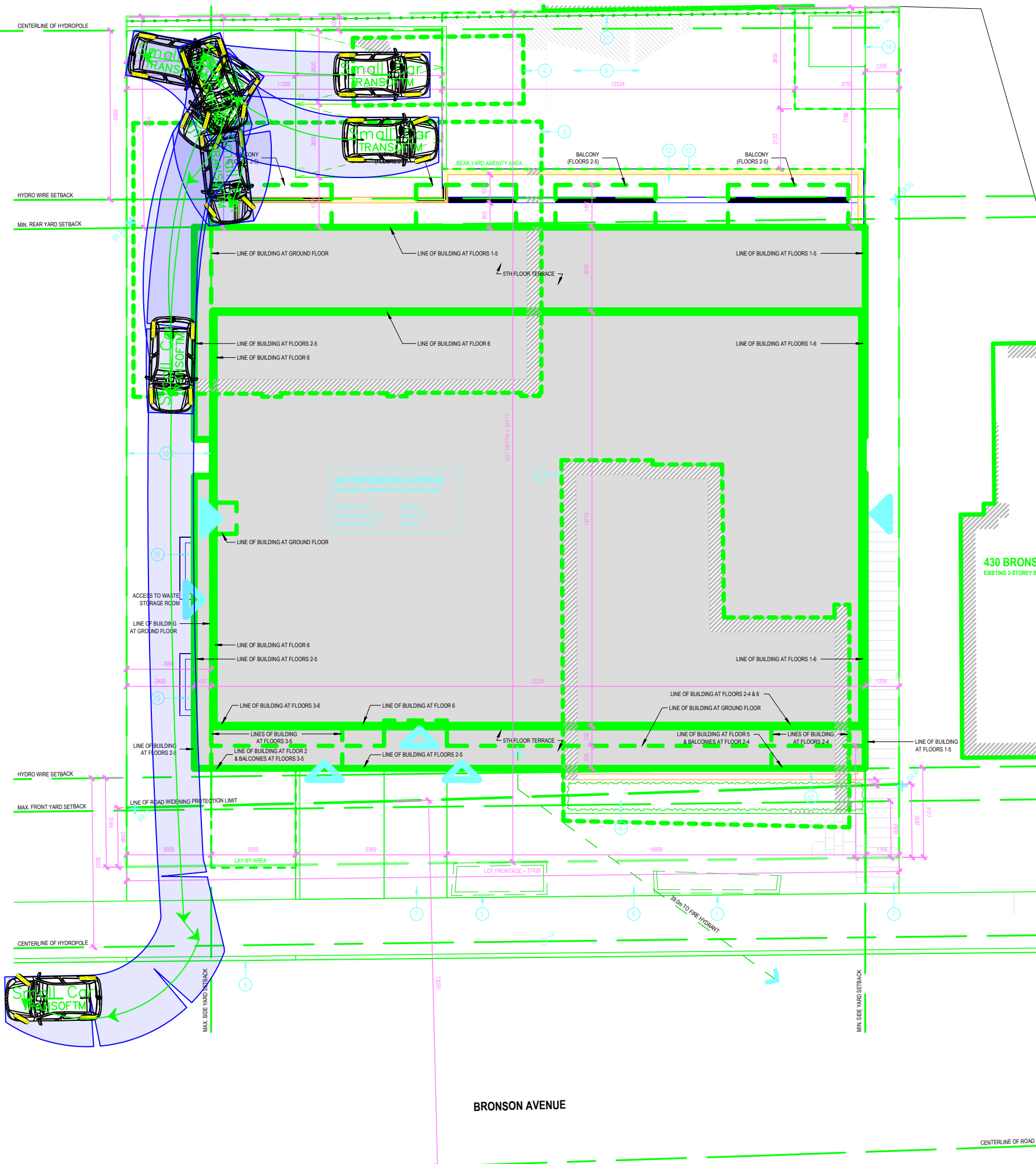
ARCHITECT:

SITE: 444 Bronson Ave

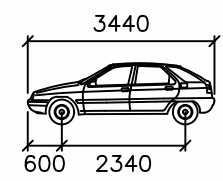
TITLE: Rear Parking
Medium Vehicle (Outbound)

SCALE AT A3: n/s	DATE: 2018-01-16	DRAWN: MC	CHECKED: CG
PROJECT NO: 2018-72	DRAWING NO: 004	REVISION:	

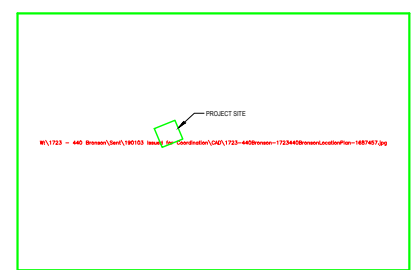




Notes:



Small Car
Width : 1600
Track : 1570
Lock to Lock Time : 6.0
Steering Angle : 34.0



description	by	
REV: DESCRIPTION:	BY:	DATE:
STATUS:		



CGH Transportation
13 Markham Ave
Nepean, ON
K2G 3Z1
(343) 999-9117

CLIENT: TCU Development Corporation
#9 - 800 Industrial Avenue, Suite 100
Ottawa, ON
K1G 4B8

ARCHITECT:

SITE: 444 Bronson Ave

TITLE: Rear Parking
Small Vehicle (Outbound)

SCALE AT A3: n/s	DATE: 2018-01-16	DRAWN: MC	CHECKED: CG
PROJECT NO: 2018-72	DRAWING NO: 003	REVISION:	