



Technical Standards and Safety Authority
345 Carlingview Drive
Toronto, Ontario M9W 6N9
Tel: 416 734.3300
Fax: 416.231.4078
Customer Service: 1.877.662.8772
propanelicensing@tssa.org
www.tssa.org

Level 1 Risk and Safety Management Plan (RSMP)
Technical Standards and Safety Act
Propane Storage and Handling Regulation

INTAKE GROUP RECIEVED

DECEMBER 10, 2020

This Level 1 RSMP applies to:
• a facility with a total propane storage capacity of 5,000 USWG or less; or
• a facility with a fixed propane storage capacity of exactly 5,000 USWG and no more than 500 USWG of portable propane storage capacity on site.

Failure to fully complete this form may result in rejection.
Making a false statement may result in a fine or prosecution
under the Technical Standards and Safety Act

Licence Number

Check applicable type of propane operations.

☐ Cylinder

☒ Motor Fill

☐ Filling Plant

☒ Card/Keylock

Submit along with this completed application a Facility Site Plan and a Map of the Surrounding Area.

For Office Use Only

TSSA INTAKE GROUP

SR 2996726

By rnishibayashi at 3:52:08 PM, 2021-01-12

SECTION A: GENERAL INFORMATION

The Undersigned applies to TSSA for a review for an RSMP under Ontario's Technical Standards and Safety Act, Propane Storage and Handling Regulation.

Company Name

Corporation No.

A City of Oshawa

Operator Name (if different from above)

Oshawa Operations Depot

Telephone No.

905-438-3311 ex. 2153

Fax No.

E-mail

AMcLeod@Oshawa.ca

B

Street No.

199

Street Name / 911 Number / Address, if applicable

Wentworth Street East

Town / City or Township / County

Oshawa

Province

Ontario

Postal Code

L1H 3Z7

Mailing address if different from above.

C

Street No.

Street Name / 911 Number / Address, if applicable

Town / City or Township / County

Province

Postal Code

Information on Container Refill Centre or Filling Plant

Location of facility.

Street No.

199

Street Name / 911 Number / Address, if applicable

Wentworth Street East

Nearest Major Intersection

Wentworth Street East & Nelson Street

Town / City or Township / County

Oshawa

Province

Ontario

Postal Code

L1H 3V8

Name of Licence Holder

Aaron McLeod - Certificate # 430869 Expires October 2, 2023

Name of a Senior Management person as defined in the regulation holding the Record of Training (ROT).

Aaron McLeod

ROT type

100-02 PTI

Municipality (or municipalities if the facility or its hazard distance touches multiple borders)

City of Oshawa

Hours of operation.

This document is valid until the next licence renewal date. You are required by law to notify TSSA of any change of information.

Declaration: I am aware that it is an offence to give false information in this document and
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Print name

Name of Licence Holder Aaron McLeod

Name of Senior Management person as defined in the

Regulation holding the Record of Training Aaron McLeod



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SECTION A: GENERAL INFORMATION (cont'd)

Indicate the year the facility was established.
2020

Indicate the year of any significant modifications, as defined in s.1, O.Reg 211/01, since establishment.

Identify the psig rating and serial number for each fixed propane storage tank on site.

	PSIG	Serial Number
Tank 1:	250	CRN H4249 5123467890 SN: 5.795389
Tank 2:		
Tank 3:		

Enter capacity of propane in USWG, fixed, portable, and mobile, and provide detailed inventory that includes the number of tank/vessel for each type (fixed, portable, and mobile) and the capacity of each tank/vessel, on a separate document.

Fixed: 2,000 USWG Portable: 47 USWG Mobile: 0

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Name of person completing this form (please print)	Official Title	
	Manager Fleet Services	
	Telephone No.	Date (dd-mm-yyyy)
	1-905-436-3311 ext. 2153	28-Nov-2020



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SECTION A: GENERAL INFORMATION (cont'd)

Activity Information

Name of Propane Supplier(s) Superior General Partner Inc. o/a Superior Propane		For Office Use - Party No.	
Street No. 251	Street Name / 911 Number / Address, if applicable Woodlawn Road West, Unit 217		
Town / City or Township / Country Guelph		Province Ontario	Postal Code N1H 8J1
Telephone No. 1-226-821-4462	Fax No. N/A	Contact Name Ian D'Cruz	
E-mail ian_dcruz@superiorpropane.com			

Name of Propane Transporter. If same as above, please check box. <input type="checkbox"/>		For Office Use - Party No.	
Superior General Partner Inc. o/a Superior Propane			
Street No. 505	Street Name / 911 Number / Address, if applicable Victoria Street		
Town / City or Township / Country Whitby		Province Ontario	Postal Code L1N 9Z3
Telephone No. 1-613-920-1339	Fax No. N/A	Contact Name Shaun Mounstevan	
E-mail Shaun_Mounstevan@SuperiorPropane.com			

Off-site Cylinder and/or Mobile Storage None		Capacity stored off-site, in USWG	For Office Use - Party No.
Street No.		Street Name / 911 Number / Address, if applicable	
Town / City or Township / Country		Province	Postal Code
Telephone No.	Fax No.	Contact Name	

Note: Customer storage is not considered off-site storage.

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Name Aaron M	Official Title Manager Fleet Services		
Signature	Telephone No. 1-905-436-3311 ext. 2153	Date (dd-mm-yyyy) 26-Nov-2020	



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SECTION B: EMERGENCY AND PREPAREDNESS RESPONSE PLAN

The licence holder will complete Section B in consultation with the local Fire Services.

Description of the maximum volume, types and storage location of other hazardous materials on site, if any.

One aboveground two compartment fuel storage tank. 40,000 L diesel and 35,000L gasoline, located NW of the propane storage tank.

Description of fire and emergency equipment indicated on facility site map.

One fire extinguisher at the propane tank.

2 fire extinguishers at diesel and gasoline dispensers, 2 fire extinguishers at the fuel storage tank.

One fire hydrant located on property, 32m south of the dispenser. Two fire hydrants located on Wentworth Street S, two fire hydrants

located on Waterloo Street and one on Nelson Street. Two emergency shut offs located at each end of the propane dispenser and one at electrical building

List of fire protection controls (e.g., fire detection systems, fire notification systems, alarm systems, automatic shut off devices, fusible links, etc.) and describe their function, use and operation.

Internal Safety Control (ISC) valves are equipped with electric actuators.

Fusible link on actuator holding open ISC valve causes liquid outlet to automatically close in event of fire.

Normally closed solenoid on automotive fill meter.

Emergency shutdown buttons when activated shut off the pump and close the ISCs and solenoid valves. Reset button in electrical room.

Maintenance and testing schedule for fire protection controls and devices.

Fire extinguishers are inspected visually every month as part of the HSE monthly inspection and annually.

Comprehensive dispenser inspection conducted annually by G2-LP Liquid Endorsed certificate holder or higher.

Facility inspection by TSSA completed as required.

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Name of person completing this form (please print)	Official Title	
As [REDACTED]	Manager Fleet Services	
S [REDACTED]	Telephone No.	Date (dd-mmm-yyyy)
	1-905-436-3311 ext. 2153	26-Nov-2020



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SECTION B: EMERGENCY AND PREPAREDNESS RESPONSE PLAN (cont'd)

1. Contacts for Emergency Response

1. Facility Contact Personnel - Key Contact		5. Facility 24-Hour Contact Person	
Name Aaron McLeod	For Office Use - Party No.	Name Various On Call Personnel	For Office Use - Party No.
Official Title Manager Fleet Services		Official Title Security Personnel	
Telephone No. 1-905-436-3311 ext. 2153	Fax No. CELL: 905-260-7448	Cell No. 1-905-436-3311	Fax No. N/A
E-mail AMcLeod@Oshawa.ca		E-mail security@oshawa.ca	
Role and responsibilities in emergency Liaison for the facility, coordinate site response.		Role and responsibilities in emergency Liaison for the facility, coordinate site response.	
2. Facility Contact Personnel - Alternate Contact		6. Name of Facility Manager	
Name Phil Lyon	For Office Use - Party No.	Name Aaron McLeod	For Office Use - Party No.
Official Title Manager Public Works		Official Title Manager Fleet Services	
Telephone No. 1-905-436-3311 ext. 2147	Fax No. CELL: 905-926-2283	Telephone No. 1-905-436-3311 ext. 2153	Fax No. N/A
E-mail PLyon@oshawa.ca		E-mail AMcLeod@Oshawa.ca	
Role and responsibilities in emergency Ensures the site emergency equipment is maintained, site is clear and drivers are trained to fill propane.		Role and responsibilities in emergency Liaison for the facility, coordinate site response.	
3. Local Fire Services - Key Contact		7. Propane Supplier Key Contact Person	
Name Derrick Clark	For Office Use - Party No.	Name Superior Propane Hotline	For Office Use - Party No.
Official Title Fire Chief	E-mail dclark@oshawa.ca	Official Title Operator	E-mail N/A
Telephone No. 1-905-436-3311 ext. 3310	Fax No. 1-905-436-5642	Telephone No. 1-877-873-7467	Fax No. N/A
Role and responsibilities in emergency Coordinate/advise on Oshawa Fire and Emergency Services response; liaise with police.		Role and responsibilities in emergency Assist fire department as required; identify and dispatch Superior Propane and/or ERAC emergency response personnel as required.	
Fire Services Address 199 Adelaide Avenue West, Oshawa, Ontario L1J 7B1 (Station No. 1)		Propane Supplier Address 251 Woodlawn Road West, Unit 217, Guelph, Ontario, N1H 8J1	
4. Local Fire Services - Alternate Contact		8. Municipal Contact	
Name Steve Barkwell and/or Todd Wood	For Office Use - Party No.	Name Mary Medeiros	For Office Use - Party No.
Official Title Deputy Fire Chief	E-mail sbarkwell@oshawa.ca	Official Title Clerk	
Telephone No. 905-436-3311 ext. 3317/3305	Fax No. EMAIL twood@oshawa.ca	Telephone No. 1-905-436-3311 ext. 2239	Fax No. 1-905-436-5699
Role and responsibilities in emergency Alternate coordinate/advise on Oshawa Fire and Emergency Services response; liaise with police.		E-mail mmedeiros@oshawa.ca	
Fire Services Address 1111 Simcoe Street South, Oshawa, Ontario L1H 4L7 (Station No. 2)		Municipality Name and Address City of Oshawa 50 Centre Street South, Oshawa, Ontario L1H 3Z7	

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Name of person completing this form (please print) Aaron M [REDACTED]	Official Title Manager Fleet Services
Signature [REDACTED]	Telephone No. 1-905-436-3311 ext. 2153
	Date (dd-mm-yyyy) 26-Nov-2020



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SECTION B: EMERGENCY AND PREPAREDNESS RESPONSE PLAN (cont'd)

2. Additional Safety Measures

Describe any other measures in place at the facility that exceed the minimum Code and Standards requirements.

Internal Safety Control (ISC) valves are equipped with electric actuators with fusible links.

ISC and other valves in closed position when unattended

Card-lock system on propane filling system to prevent unauthorized use.

Emergency Response Assistance Plan (ERAP) through Superior Propane's contract with ERAC, which provides emergency counselling and equipment.

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Name of person completing this form (please print) Aaron McLeod		Official Title Manager Fleet Services	
Signature 	Telephone No. 1-905-436-3311 ext. 2153	Date (dd-mm-yyyy) 26-Nov-2020	



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SECTION B: EMERGENCY AND PREPAREDNESS RESPONSE PLAN (cont'd)

3. Record of Emergency Training Provided - For most recent 12-month period.

Training on Emergency Response Plan and Procedures provided to facility key contacts.

Training Date (dd-mmm-yyyy) New: with commissioning	Print Name of Training Provider: City of Oshawa
	Print Name of Instructor: Aaron McLeod
Training Date (dd-mmm-yyyy)	Print Name of Training Provider:
	Print Name of Instructor:
Training Date (dd-mmm-yyyy)	Print Name of Training Provider:
	Print Name of Instructor:

Training on the facility's Emergency Management Procedures provided to staff.

Training Date (dd-mmm-yyyy) New: with commissioning	Print Name of Training Provider: City of Oshawa, Health and Safety
	Print Name of Instructor: George Herc
Training Date (dd-mmm-yyyy)	Print Name of Training Provider:
	Print Name of Instructor:
Training Date (dd-mmm-yyyy)	Print Name of Training Provider:
	Print Name of Instructor:

On-site specific training provided to certificate holders / persons with Records of Training.

Training Date (dd-mmm-yyyy) New: with commissioning	Print Name of Training Provider: Superior Propane
	Print Name of Instructor: Hugh Sutherland
Training Date (dd-mmm-yyyy)	Print Name of Training Provider:
	Print Name of Instructor:
Training Date (dd-mmm-yyyy)	Print Name of Training Provider:
	Print Name of Instructor:

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Name of person completing this form (please print) Aaron M [redacted]	Official Title Manager Fleet Services
Signature [redacted]	Telephone No. 1-905-436-3311 ext. 2153
	Date (dd-mmm-yyyy) 26-Nov-2020



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SECTION B: EMERGENCY AND PREPAREDNESS RESPONSE PLAN (cont'd)

4. Emergency Training Plan for Coming Year

Training on Emergency Response Plan and Procedures provided to facility key contacts.

Target Date (dd-mmm-yyyy) New: with commissioning	Print Name of Training Provider: City of Oshawa
	Print Name of Instructor: Aaron McLeod
Target Date (dd-mmm-yyyy)	Print Name of Training Provider:
	Print Name of Instructor:
Target Date (dd-mmm-yyyy)	Print Name of Training Provider:
	Print Name of Instructor:

Training on the facility's Emergency Management Procedures provided to staff.

Target Date (dd-mmm-yyyy) New: with commissioning	Print Name of Training Provider: City of Oshawa, Health and Safety
	Print Name of Instructor: George Herc
Target Date (dd-mmm-yyyy)	Print Name of Training Provider:
	Print Name of Instructor:
Target Date (dd-mmm-yyyy)	Print Name of Training Provider:
	Print Name of Instructor:

On-site specific training provided to certificate holders / persons with Records of Training.

Target Date (dd-mmm-yyyy) New: with commissioning	Print Name of Training Provider: Superior Propane
	Print Name of Instructor: Hugh Sutherland
Target Date (dd-mmm-yyyy)	Print Name of Training Provider:
	Print Name of Instructor:
Target Date (dd-mmm-yyyy)	Print Name of Training Provider:
	Print Name of Instructor:

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Name of person completing this form (please print) Aaron McLeod	Official Title Manager Fleet Services
S [Redacted Signature]	Telephone No. 1-905-436-3311 ext. 2153
	Date (dd-mmm-yyyy) 26-Nov-2020



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SECTION B: EMERGENCY AND PREPAREDNESS RESPONSE PLAN (cont'd)

The licence holder will complete Section B in consultation with the local Fire Services.

5. Emergency Response Communications Plan

Warnings and Actions

Describe who gives warnings to whom, and how and when the warning will be given (including public notification as appropriate).
Staff will follow the Oshawa Operations Depot Fire Safety Plan. In an emergency the responsibilities of the Building Manager, Alternate and Fire Wardens are outlined in the Fire Safety Plan. In an emergency, staff will hit the emergency shut off at the dispenser or building to shut off power to the pump, dispenser and close the ISC and solenoid valves. Staff are instructed to call 9-1-1 in an emergency and initiate facility evacuation to the muster point.

Facility Contact will contact propane Supplier Key Contact who will activate ERAP (if necessary) and report to TSSA through Spills Action Centre.

Describe what action is to be taken and by whom when a warning is issued (including details of a meeting place in a safe identified area and activating the evacuation plan, if necessary).

Staff will hit the emergency shut off and announce a propane emergency.

If necessary, all employees and visitors will immediately vacate the building and premises and meet at the muster point.

Communication with Emergency Response Authorities

Describe when and how the licence holder will give early warning to emergency response authorities (including a process to ensure that a call is placed to 911).

All employees are instructed and authorized to activate emergency response authorities by calling 9-1-1 upon occurrence of fire and/or significant leak.

Continued flow of information to be provided as it occurs by the person of responsibility to the fire services.

In the event of an emergency, the person in charge at the time of the emergency is required to be present to provide updated information.

Describe provisions for fire department entry when there are no operations or staffing at the propane site.

The dispenser is accessible to fire department entry at all times.

Describe how the licence holder will ensure continual flow of updated information to authorities.

Key facility contact (Aaron McLeod) will provide information to authorities via cell phone.

Fire services are formally invited for a full site review on an annual basis with supplementary site access for training and orientation as requested (Superior).

Site specific emergency procedures are reviewed annually with all employees.

How long will it take the facility liaison person to respond to the site.

Facility Key (Aaron) and Alternate (Phil) Contacts are present on site during working hours and will respond.

24 Hour Facility Contact (Security personnel) is present on site during after hours and will respond. Security personnel are trained in emergency procedures.

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Name of person completing this form (please print)		Official Title	
Aaron McLeod		Manager Fleet Services	
Signature		Telephone No.	Date (dd-mm-yyyy)
		1-905-436-3311 ext. 2153	26-Nov-2020



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SECTION B: EMERGENCY AND PREPAREDNESS RESPONSE PLAN (cont'd)

The licence holder will complete Section B in consultation with the local Fire Services.

6. Building and Site Security and Procedures

	Yes	No
1. Does the propane location have controlled access to limit unnecessary risk and entry (lock out procedures)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
2. Is there adequate night lighting at the site?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
3. Are procedures in place that ensure access routes, aisles, storage area, filling areas and the grounds are kept clear from unwanted materials?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
4. Are there procedures that capture and record the daily inspection of hoses and inspection requirements for filling systems and mechanical devices used in the transfer of propane?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
5. Does the facility have procedures that include a process to isolate and purge any overfilled propane cylinders?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
6. Are weighing systems validated for accuracy?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
7. Are storage areas clearly marked with the vessels' capacity status (i.e., filled, empty, purged and other hazardous materials)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
8. Are quality assurance procedures in place to ensure that all valves are closed after the propane cylinders are filled?(e.g., QCC valves)	<input type="checkbox"/>	<input checked="" type="checkbox"/>
9. Is the schedule of maintenance and testing activities retained on site?	<input checked="" type="checkbox"/>	<input type="checkbox"/>

7. Water Supply

The propane licence holder should work with the local fire department to determine water supply capabilities that are available based on the propane facility's location.

	Yes	No
1. Is a pressurized water system available at the propane facility site?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
2. Can the municipal fire department pump 375 GPM (1420 LPM) of water at this location?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
3. What is the unobstructed distance to the closest water supply that could be used for firefighting activities? (distance in metres only)	32 m	
4. What is the unobstructed distance to the closest approved water supply with year round access if there are no hydrants? (distance in metres only)	N/A	

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Signature 	Telephone No. 1-905-436-3311 ext 2153	Date (dd-mmm-yyyy) 26-Nov-2020



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SECTION B: EMERGENCY AND PREPAREDNESS RESPONSE PLAN (cont'd)

The licence holder will complete Section B in consultation with the local Fire Services.

8. Licence holder and local Fire Services Review

To be completed by the Local Fire Services

Has the local fire service had an opportunity to review the Emergency Response and Preparedness Plan?

Yes



No



If not, please explain (e.g., no fire services).

Fire services comments, if any:

See attached

To be completed by the Licence Holder

In response to the above comments, the following action(s) is required:

The licence holder will respond to the Local Fire Services comments by:

Reviewed by OFS Dec 1/20
(dd-mmm-yyyy)

LOCAL FIRE SERVICES

The undersigned has reviewed Section B of the Risk and Safety Management Plan Fire Services.

Print name	SI	Date (dd-mmm-yyyy)
Local Fire Services Name Catherine Beaver, Oshawa Fire Services,		04/12/20

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Name of person completing this form (please print) Aaron McLeod	Official Title Manager Fleet Services
Signature	Telephone No. 1-905-436-3311 ext. 2153
	Date (dd-mmm-yyyy) 26-Nov-2020

Oshawa Fire Services

Fire Service Information Form

Review and Comments for Level 1 RSMP

Date: November 5, 2020

Reviewed By: Catherine Beaver

Note:

Some versions of Adobe Reader will not allow users to save this file after completion. Use compatible versions of Adobe software when possible.

The following information is being provided by the local fire service having jurisdiction for the propane facility referenced within the Level 1 RSMP submission. The fire service is providing the information under the requirements of O. Reg. 211/01 and exercising it's authority for review and comment. The following comments are being provided to the propane operator;

Municipal Information	
Municipality / Region	City of Oshawa / Durham Region
Address	50 Centre Street South
Address	
City	Oshawa, Ontario
Postal Code	L1H 3Z7
Clerk	Mary Medeiros
Phone	905-436-3311 ext. 2239 / 289-830-8342
Fax	
Email	mmedeiros@oshawa.ca
Alternate (if applicable)	Laura Davis
Phone	905-436-3311 ext. 2475 / 289-404-7524
Fax	
Email	ldavis@oshawa.ca

Municipal Fire Department Information	
Fire Department Name	Oshawa Fire Service
Address	199 Adelaide Avenue West
Address	
City	Oshawa, Ontario
Postal Code	L1J 7B1
Fire Chief	Derrick Clark
Phone	905-436-3311 ext. 3310
Cell	905-260-1446
Fax	905-436-5642
Email	dclark@oshawa.ca
Alternate Contact	Deputy Chiefs: Steve Barkwell / Todd Wood
Phone	905-436-3311 ext. 3317 / 3305
Cell	905-809-1403 / 905-260-1445
Fax	905-436-5642
Email	sbarkwell@oshawa.ca / twood@oshawa.ca

Fire Service Response Details	
The fire service should identify how many fire stations are located in the municipality and reference an approximate distance to the closest municipal fire station for response. Municipal resources should be shown in this table since the contacted fire service may not be available to respond at all times.	
How many fire stations are within the municipality?	6 Stations
What is the approximate distance to the propane facility from the closest municipal fire station (Km)?	700 meters
The fire service should provide the average response time for their first arriving crew from the closest responding station, including stations under agreement. The time noted should be used as an ordinary response time as other factors that increase response time are not predictable. The time to assemble a full complement of crews means that the fire service has established all operational tasks and staffing and resources are available to support the operational assignments. Average times should be noted as factors that influence response setup are not predictable.	
What is the approximate First Response time? (First arriving crew to complete scene assessment)	2 minutes
What is the expected time to assemble a full complement of crews to support operations (approx. minutes)? (All apparatus and crews arrive, operational assignments provided)	7 minutes

Fire Service Equipment					
Provide a list of all fire service apparatus that will be responding to this specific propane site should an event occur. List apparatus as pumpers, tankers or aerial devices. Combination units should be shown for the intended use as a pumper or tanker. Note: Apparatus shown in this section are for information purposes only. Unforeseeable situations such as maintenance or other emergency responses may limit apparatus availability. Total pump capacity may be limited by the water supply available or the number of apparatus available. Operations may require pumpers to be assigned to water supply and the site.					
Truck ID (P1, T1 or L1)	Pumper	Tanker	Elevating Device	Pump Capacity (GPM or LPM)	Water Capacity (Gal or Litres)
55100	Pump 22		No	7070 LPM	2900 L
55191	Aerial 22		Yes	6000 LPM	1779 L
55050	Pump 24		No	6094 LPM	2300 L
55191	Pump 21		No	6000 LPM	2180 L
	Car 25		No	0 LPM	0 L
Total Pump Capacity available (units)					25164 LPM
Total Mobile Water Capacity available on trucks (units)					9156 L

Fire Service Response Considerations	
The engineer must consider your fire protection services capabilities when determining a mitigation strategy in the RSMP. It will be important to provide accurate information about response capabilities and training to ensure the RSMP closes any identified response gaps.	
Current Level of HAZMAT training that the fire service has obtained	Operational Level
Provide fire service operation details that a propane company could expect from your fire service in the event of a propane leak or fire. (Example of Service Operations: Dispatch protocols will have a 1st response alarm of 3 response locations including apparatus XYZ, establish water supply with apparatus abc, our fire service has awareness level training, will establish safety zones, control fire within training and operational limitations, fight fire from a safe distance, will await technical support from propane operator.)	
<div></div>	
List all intervention capabilities that the fire service can provide. (Provide specific details that identify mitigation actions the fire service will perform for this specific site)	
<div></div>	

Water Supply Comments

Check the appropriate response that best suits the water flow situation identified by your fire department.

Note: This information should also be shown in the Level 1 RSMP (page 10 of 15).

The fire service has the capability to pump and maintain a continuous flow rate of 375 GPM at the referenced facility.

☐

The fire service DOES NOT have the capabilities to pump 375 GPM at the propane facilities location. The propane operator requires a level of fire protection services beyond the capabilities of the municipal fire department and will be responsible to assess other safety strategies beyond municipal fire protection.

☐

Fire Service Comments for Level 1 RSMP Section B Emergency Response and Preparedness Plan

Additional Fire Service Comments:

Additional Fire Service Comments:

November 9, 2020

Date

Catherine Beaver

Print Name

Catherine Beaver

Signature



Technical Standards and Safety Authority
345 Carlingview Drive
Toronto, Ontario M9W 6N9
Tel: 416.734.3300
Fax: 416.231.4078
Customer Service: 1.877.682.8772
propanelicensing@tssa.org
www.tssa.org

Level 1 Risk and Safety Management Plan (RSMP)
Technical Standards and Safety Act
Propane Storage and Handling Regulation

SECTION C: SUBMISSIONS

Applicant must include a Facility Site Plan and Map of Surrounding Area

Facility Site Plan.

The licence holder will submit a copy of the original facility site plan updated with the following information:

1. The storage location of fixed, portable, and mobile vessels.
2. The maximum volume, types and storage location of hazardous materials.
3. Location of permanent structures on site.
4. Access and egress points and location of barriers.
5. Location of fire and emergency equipment (e.g., sprinkler systems, extinguishers, suppression systems) on site and location of fire hydrant or water supply where available.
6. Location of emergency shut off/shut down switches/valves.

Map of Surrounding Area.

The licence holder will submit a scaled aerial map of the surrounding area showing the following information:

7. The capacity and placement of the single largest propane storage vessel, including its setback from the front, rear and side property lines.
8. GPS co-ordinates of the single largest vessel.
9. Visual indication of the single largest fixed vessel and a circle made using the distance in Table 1 as the radius from the single largest fixed vessel.
10. Clear indication of the municipality or municipalities present within the circle.
11. Visual indication of property line information.
12. The location and name of roads within or abutting the site.
13. Key note to the drawing indicating the facility's municipal address, municipal lot number(s) and concession lines as applicable, and the date the map was prepared.
14. Address and contact information for each municipality (municipal clerk or secretary-treasurers of planning board). (Refer to page 5.)
15. Complete "Required Mapping Information from Updated Site Plan" in table below.

Required Mapping Information from Updated Site Plan

Date map prepared (dd-mmm-yyyy) 29-SEP-2020		Capacity of single largest propane storage vessel (USWG) 2,000 USWG	
Tank setback coordinates. Indicate placement on the map.			
Front:	156 m (W)	Right side property line:	62.8 m (N)
Rear:	147 m (E)	Left side property line:	144 m (S)
GPS coordinates of single largest vessel:		43°52'31.47"N 78°50'22.35"W	

Declaration: I am aware that it is an offence to give false information in this document and I hereby declare that the information I have given here is true and complete.

Name of person completing this form (please print) Aaron McLeod		Official Title Manager Fleet Services	
Signature	[Redacted Signature]	Telephone No. 905-436-3311 ext. 2153	Date (dd-mmm-yyyy) 26-Nov-2020



Technical Standards and Safety Authority
 345 Carlingview Drive
 Toronto, Ontario M9W 6N9
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Level 1 Risk and Safety Management Plan (RSMP)
Technical Standards and Safety Act
Propane Storage and Handling Regulation

SECTION C: SUBMISSIONS (cont'd)

Applicant must include a Facility Site Plan and Map of Surrounding Area

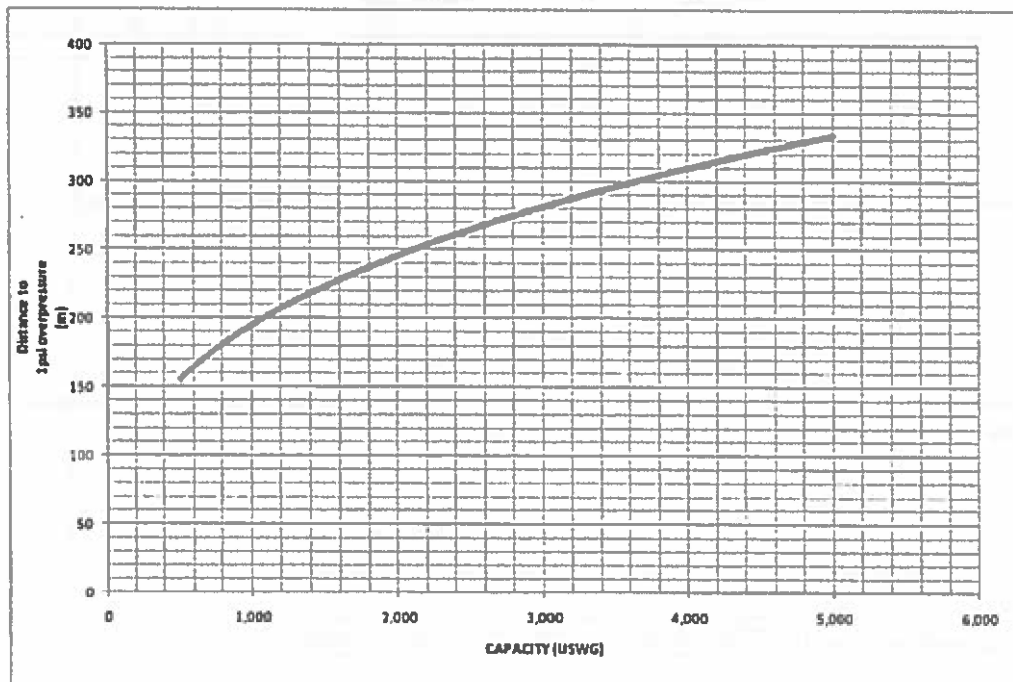
Table 1: Distance Table

Water Capacity (litres)	Nominal Water Capacity (USWG)	Distance to 1 psi overpressure (m)
1,890	500	155
3,780	1,000	195
4,920	1,300	213
6,620	1,750	235
7,130	1,885	241
7,560	2,000	246
18,900	5,000	333

Formula: $D = 16.94 \times (1.524 \times C)^{1/3}$
 D = Distance to overpressure of 1 psi (meters)
 C = Tank Total Capacity in USWG

Parameters: Density of Propane is 0.5033 kg per litre @ 15 C
 Assume all vessels are 80% full
 1 gallon [US, liquid] = 0.003785411784 cubic meter
 1 cubic metre = 264.17 USWG

Hazard Distance Chart (EPA-TNT model)





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Level 1 Risk and Safety Management Plan (RSMP)
Technical Standards and Safety Act
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SECTION C: SUBMISSIONS (cont'd)

Applicant must include a Facility Site Plan and Map of Surrounding Area

As an accompaniment to the Map of Surrounding Area, provide the following information about buildings and features present within the circle in Table 2.

Table 2: Buildings and Features

Buildings and Features Present within the Circle on the Map of the Surrounding Area AND Name and Address of Closest Building or Feature	* Number of Buildings and Features (mark with an "X")				Distance from Tank to Closest Building or Feature
	0	1	2-10	11+	
Industrial buildings or parks or golf courses Name: <u>Sigus Heavy Machinery Mfg.</u> Address: <u>1019 Nelson Street</u> City: <u>Oshawa</u> Province <u>Ontario</u> Postal Code <u>L1H 7N9</u>		X			<u>192</u> m
Residential building units specifically permanent single family dwellings, condominiums, and apartments. Name: <u>[REDACTED]</u> Address: <u>[REDACTED]</u> City: <u>[REDACTED]</u>				X	<u>110</u> m
Commercial building units specifically retail, restaurants, entertainment, theatres, and sporting complexes. Name: <u>Berkhof's Roofing</u> Address: <u>180 Wentworth Street East</u> City: <u>Oshawa</u> Province <u>Ontario</u> Postal Code <u>L1H 3V5</u>				X	<u>100</u> m
Commercial building units – continuous occupancy specifically hotels, campgrounds, and resorts. Name: <u>N/A</u> Address: _____ City: _____ Province _____ Postal Code _____					_____ m
Sensitive institutions specifically hospitals, schools and day cares, nursing and retirement homes, mental health institutions, and prisons. Name: <u>Bobby Orr Public School</u> Address: <u>7 Waterloo Street</u> City: <u>Oshawa</u> Province <u>Ontario</u> Postal Code <u>L1H 8V9</u>		X			<u>218**</u> m
Emergency responders specifically fire stations, ambulance stations, and police stations. Name: _____ Address: _____ City: _____ Province _____ Postal Code _____	X				_____ m

* For multi-unit buildings, count each unit as "1".

**** Building is outside of hazard distance**

Declaration: I am aware that it is an offence to give false information in this document and I hereby declare that the information I have given here is true and complete.

Name of person completing this form (please print) <u>Aaron McLeod</u>	Official Title <u>Manager Fleet Services</u>
Signature <u>[REDACTED]</u>	Telephone No. <u>1-905-436-3311 ext. 2153</u>
	Date (dd-mmm-yyyy) <u>26-Nov-2020</u>



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Level 1 Risk and Safety Management Plan (RSMP)
Technical Standards and Safety Act
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WORKSHEET

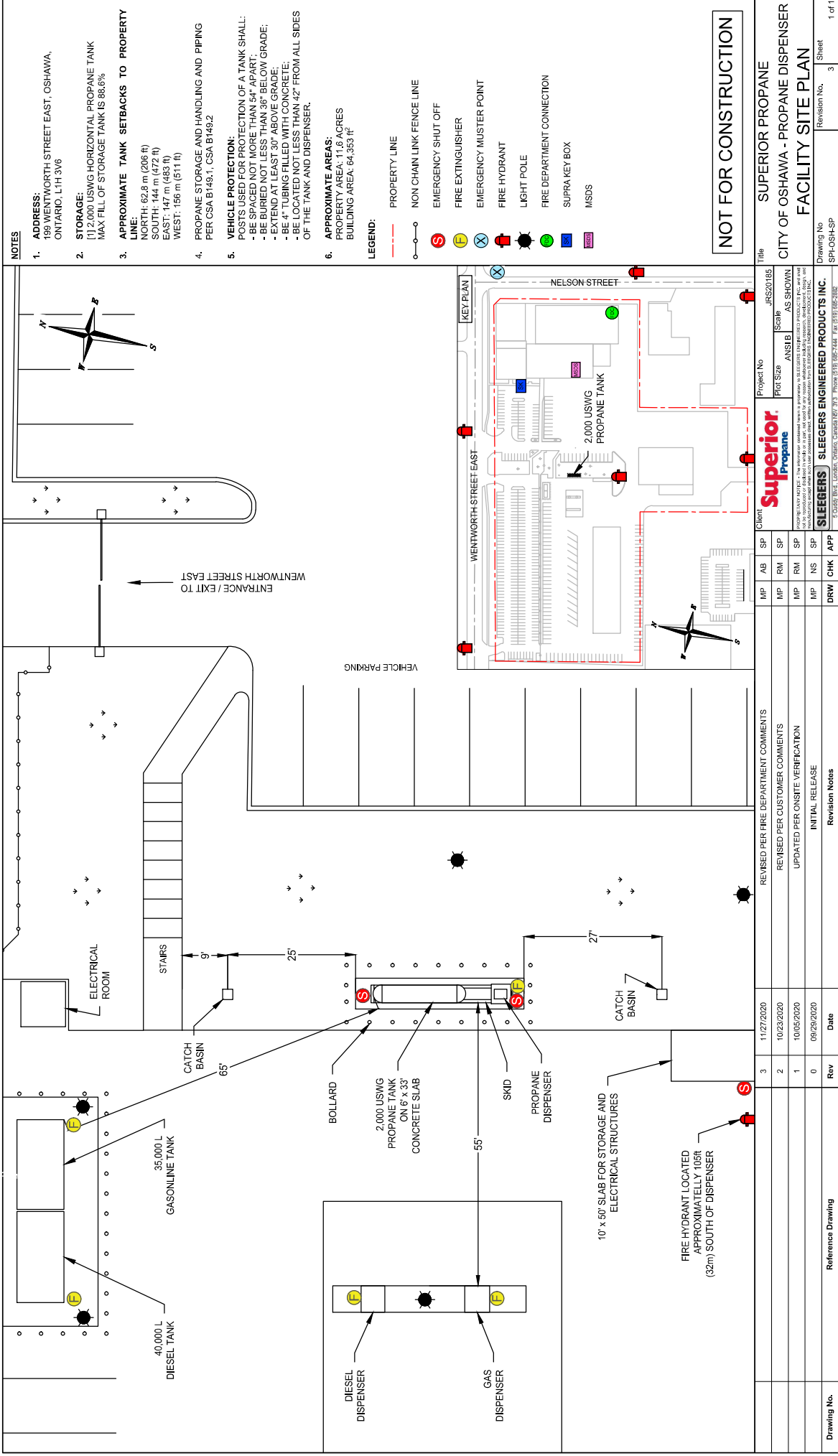
Portable Storage Additional Information Worksheet

Cylinder Size	Capacity in USWG	Quantity	Total Volume in USWG
# 420	123.9	0	0
# 100	29.5	0	0
# 40	11.75	4	47
# 33.3	9.62	0	0
# 30	8.8	0	0
# 20	5.8	0	0
# 10	2.9	0	0
# 5	1.5	0	0
Total Cylinder Capacity 0			

Tanks Stored On-site Not Connected for Use

Tank Size in USWG	Quantity	Total Volume in USWG
0	0	0
0	0	0
0	0	0
0	0	0
0	0	0
0	0	0
0	0	0
0	0	0
0	0	0
Total Tank Capacity 0		

Total Cylinder Capacity	47
Total Tank Capacity	0
Total Portable Capacity (Total Cylinder Capacity + Total Tank Capacity)	47



NOTES

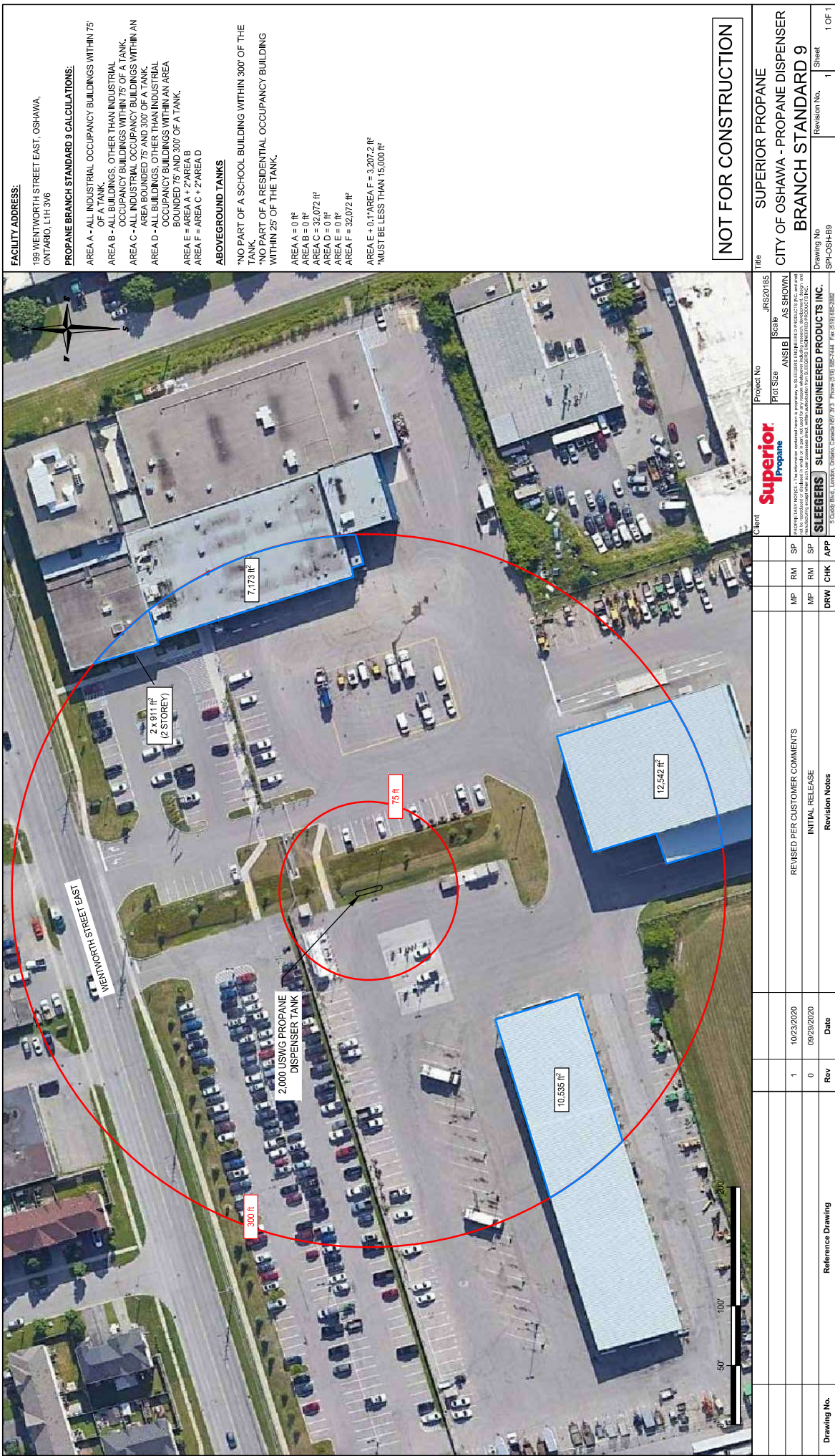
- ADDRESS:**
190 WENTWORTH STREET EAST, OSHAWA,
ONTARIO, L1H 3V6
- STORAGE:**
[1] 2,000 USWG HORIZONTAL PROPANE TANK
MAX FILL OF STORAGE TANK IS 88.6%
- APPROXIMATE TANK SETBACKS TO PROPERTY LINE:**
NORTH: 62.8 m (206 ft)
SOUTH: 144 m (472 ft)
EAST: 147 m (483 ft)
WEST: 196 m (511 ft)
- PROPANE STORAGE AND HANDLING AND PIPING**
PER CSA B143.1, CSA B149.2
- VEHICLE PROTECTION:**
POSTS USED FOR PROTECTION OF A TANK SHALL:
- BE SPACED NOT MORE THAN 54" APART;
- BE BURIED NOT LESS THAN 36" BELOW GRADE;
- EXTEND AT LEAST 30" ABOVE GRADE;
- BE 4" TUBING FILLED WITH CONCRETE;
- BE LOCATED NOT LESS THAN 42" FROM ALL SIDES
OF THE TANK AND DISPENSER.
- APPROXIMATE AREAS:**
PROPERTY AREA: 11.6 ACRES
BUILDING AREA: 64,353 ft²

LEGEND:

- PROPERTY LINE
- NON CHAIN LINK FENCE LINE
- EMERGENCY SHUT OFF
- FIRE EXTINGUISHER
- EMERGENCY MUSTER POINT
- FIRE HYDRANT
- LIGHT POLE
- FIRE DEPARTMENT CONNECTION
- SUPRA KEY BOX
- MSDS

NOT FOR CONSTRUCTION

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FACILITY ADDRESS:
189 WENTWORTH STREET EAST, OSHAWA,
ONTARIO, L1H 3V6

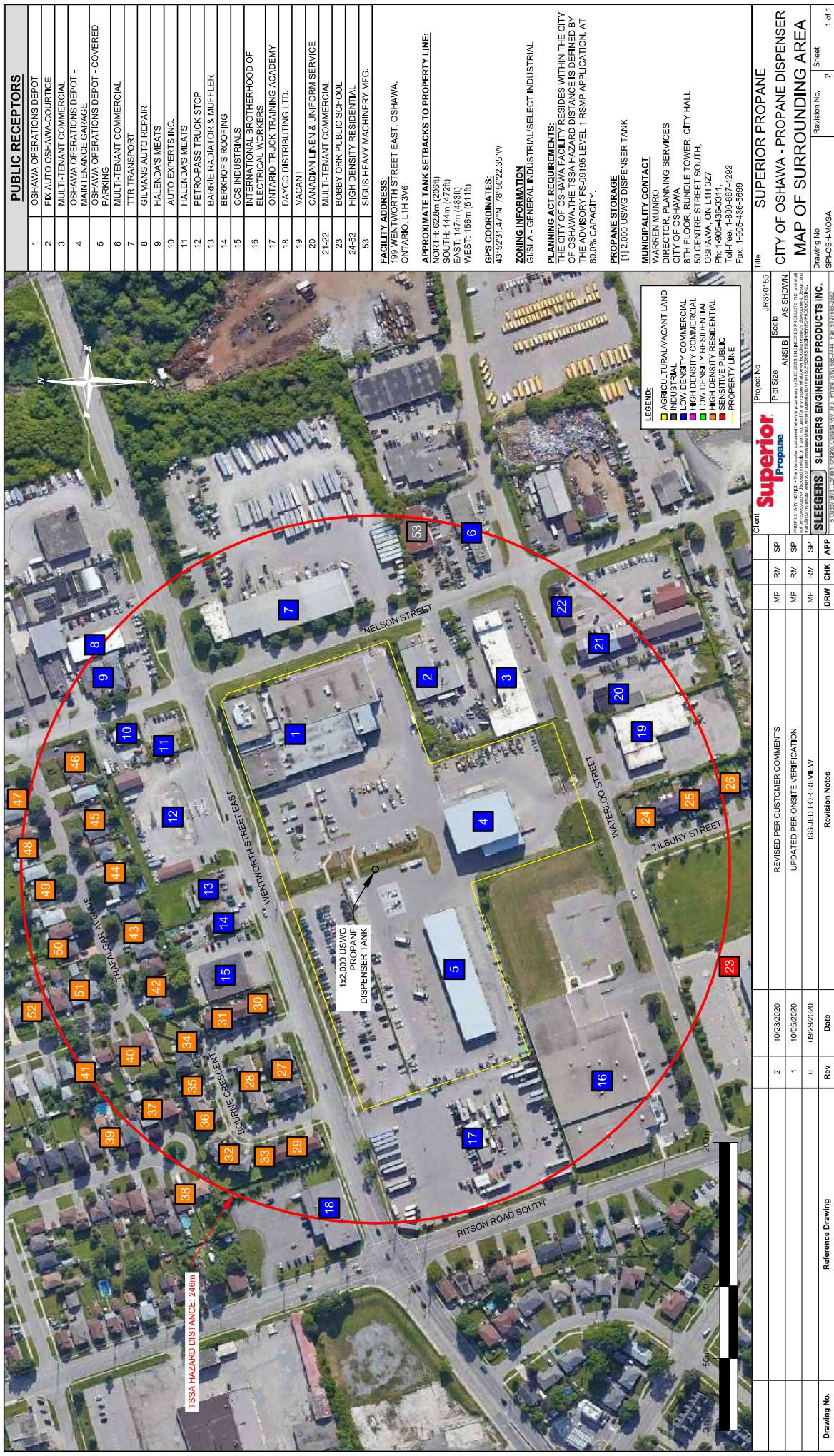
PROFANE BRANCH STANDARD 9 CALCULATIONS:
AREA A - ALL INDUSTRIAL OCCUPANCY BUILDINGS WITHIN 75' OF A TANK.
AREA B - ALL BUILDINGS, OTHER THAN INDUSTRIAL OCCUPANCY BUILDINGS WITHIN 75' OF A TANK.
AREA C - ALL INDUSTRIAL OCCUPANCY BUILDINGS WITHIN AN AREA BOUNDED 75' AND 300' OF A TANK.
AREA D - ALL BUILDINGS, OTHER THAN INDUSTRIAL OCCUPANCY BUILDINGS WITHIN AN AREA BOUNDED 75' AND 300' OF A TANK.
AREA E = AREA A + 2*AREA B
AREA F = AREA C + 2*AREA D

ABOVEGROUND TANKS
*NO PART OF A SCHOOL BUILDING WITHIN 300' OF THE TANK.
*NO PART OF A RESIDENTIAL OCCUPANCY BUILDING WITHIN 25' OF THE TANK.

AREA A = 0 ft²
AREA B = 0 ft²
AREA C = 32,072 ft²
AREA D = 0 ft²
AREA E = 0 ft²
AREA F = 32,072 ft²
AREA E + 0.1*AREA F = 3,207.2 ft²
*MUST BE LESS THAN 15,000 ft²

NOT FOR CONSTRUCTION

Drawing No.	Reference Drawing		Rev	Date	Revision Notes		DRW	CHK	APP	MP		RM	SP	REVISED PER CUSTOMER COMMENTS		MP	RM	SP	Client		Project No	Scale	ANSI/B	AS SHOWN	Title	
			0	09/29/2020	INITIAL RELEASE														SUPERIOR PROPANE		JRS20185				CITY OF OSHAWA - PROPANE DISPENSER	
			1	10/23/2020															BRANCH STANDARD 9						Revision No.	
																			SLEEPERS SLEEPERS ENGINEERED PRODUCTS INC.		SP-05H49	1	1 OF 1	Drawing No.		

[illegible]