



Technical Standards and Safety Authority
www.tssa.org

14th Floor - Centre Tower
3300 Bloor Street West
Toronto Ontario M8X 2X4
Fax: 416.231.4078
Customer Service: 1.877.682.8772

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

- 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 N/A

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.

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 A <u>HERC Equipment Rental Inc.</u>		Corporation No. <u>1389811 Ontario Ltd.</u>
Operator Name (if different from above) <u>HERC Equipment Rental Inc.</u>		
Telephone No. <u>905.561.2481</u>	Fax No. <u>N/A</u>	E-mail <u>camille@hercequipment.com</u>

Street No. <u>330</u>		Street Name / 911 Number / Address, if applicable <u>Fruitland Road</u>	
Town / City or Township / County <u>Hamilton</u>		Province <u>Ontario</u>	Postal Code <u>L8E 5M8</u>

Mailing address if different from above.

Street No. <u>330</u>		Street Name / 911 Number / Address, if applicable <u>Fruitland Road</u>	
Town / City or Township / County <u>Hamilton</u>		Province <u>Ontario</u>	Postal Code <u>L8E 5M8</u>

Information on Container Refill Centre or Filling Plant

Location of facility.					
Street No. <u>330</u>		Street Name / 911 Number / Address, if applicable <u>Fruitland Road</u>		Nearest Major Intersection <u>Fruitland Road & Barton Street East</u>	
Town / City or Township / County <u>Hamilton</u>		Province <u>Ontario</u>	Postal Code <u>L8E 5M8</u>		

Name of Licence Holder

Camille Jagdeo

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

Camille Jagdeo

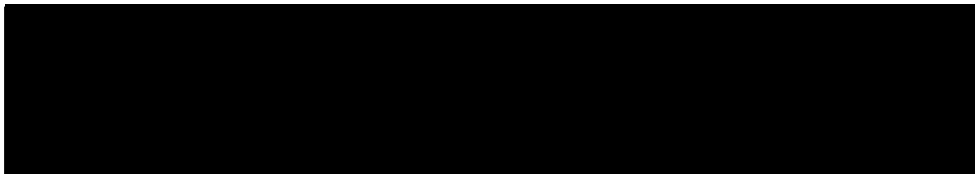
ROT type

100-08

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

Hamilton

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 I hereby declare that the information I have given here is true and complete.

Print name	Signature	Date (dd-mmm-yyyy)
Name of Licence Holder <u>Camille Jagdeo</u>		<u>10-09-2016</u>
Name of Senior Management person as defined in the Regulation holding the Record of Training <u>Camille Jagdeo</u>		<u>10-09-2016</u>



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SECTION A: GENERAL INFORMATION (cont'd)

Indicate the year the facility was established. <u>2016</u>	Indicate the year of any significant modifications, as defined in s.1, O.Reg 211/01, since establishment. <u>New Site - No Changes</u>
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Identify the psig rating and serial number for each fixed propane storage tank on site.

	PSIG	Serial Number
Tank1:	<u>250 psig</u>	<u>9J82-4</u>
Tank2:	_____	_____
Tank3:	_____	_____

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: 2000 USWG Portable: 2980 USWG Mobile: 0 USWG

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Name of person completing this form (please print) <u>Camille Jagdeo</u>	Official Title <u>Director</u>	
Signature 	Telephone No. <u>905.561.2481</u>	Date (dd-mmm-yyyy) <u>18-06-2016</u>



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SECTION A: GENERAL INFORMATION (cont'd)

Activity Information

Name of Propane Supplier(s) Primemax Energy Inc.		For Office Use - Party No.	
Street No. 2558	Street Name / 911 Number / Address, if applicable Cedar Creek Road R.R. #1		
Town / City or Township / Country Ayr		Province Ontario	Postal Code N0B 1E0
Telephone No. 1-519-740-8209	Fax No. 1-519-740-1015	Contact Name Mike Taylor	
E-mail primemax@primemaxenergy.com			

Name of Propane Transporter. If same as above, please check box. <input checked="" type="checkbox"/>		For Office Use - Party No.	
Primemax Energy Inc.			
Street No. 2558	Street Name / 911 Number / Address, if applicable Cedar Creek Road R.R. #1		
Town / City or Township / Country Ayr		Province Ontario	Postal Code N0B 1E0
Telephone No. 1-519-740-8209	Fax No. 1-519-740-1015	Contact Name Mike Taylor	
E-mail primemax@primemaxenergy.com			

Off-site Cylinder and/or Mobile Storage N/A	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 of person completing this form (please print) Camille Jagdeo	Official Title Owner	
Signature 	Telephone No. 905.561.2481	Date (dd-mmm-yyyy) 10-09-2016



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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.

The facility is built to the Propane Code requirements and does not have any extra features that are over and above the Code. Tank is protected with vehicle protection on all sides. Yard is fenced so tank and valves are secure from tampering by public. Solenoid valve on piping from the pump will shut-off the flow of propane in case of Emergency. Emergency shutdown switch installed as shown so remote shut-down of facility can be accommodated.

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Signature 	Telephone No. 905.561.2481	Date (dd-mmm-yyyy) 10-09-2016



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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) 30-09-2016	Print Name of Training Provider: Primemax Energy Inc.
	Print Name of Instructor: Ron Driedger
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) 30-09-2016	Print Name of Training Provider: Primemax Energy Inc.
	Print Name of Instructor: Ron Driedger
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) 09-10-2013	Print Name of Training Provider: Primemax Energy Inc.
	Print Name of Instructor: Ron Driedger
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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Signature 	Telephone No. 905.561.2481	Date (dd-mmm-yyyy) 10-09-2016



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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) 15-09-2017	Print Name of Training Provider: HERC Equipment Rental Inc.
	Print Name of Instructor: Camille Jagdeo
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) 15-09-2017	Print Name of Training Provider: HERC Equipment Rental Inc.
	Print Name of Instructor: Camille Jagdeo
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) 21-09-2016	Print Name of Training Provider: Primemax Energy Inc.
	Print Name of Instructor: Ron Driedger
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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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).
The manger will give a verbal warning to the customers in the Showroom & Office area and instruct them to leave the premises. The Key Contact will call 9-1-1 to ask for help and explain the nature of the problem. This call will be made once the nature of the emergency is determined. Only a person with fire extinguisher training is permitted to attempt to put the fire out. Otherwise a call to 9-1-1 must be made.

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).

Once the warning is given the Manager will have everyone meet in the Emergency Evacuation Point and make a head count of staff & visitors. The Key Contact will place cones across the entrance/exits to stop vehicles from entering the site and will wait for the emergency responders to arrive.

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).

The Licence Holder will determine what the emergency is and if a call to 9-1-1 is required. There is a phone inside the office or a cell phone can be used to make the call. Either the Key Contact will call or the Assistant Manager will call but at least one of these persons will be on the site.

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

The tank is well back from the highway and access is restricted by fencing. The Fire Department can use bolt cutters to gain access to the site if required.

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

The License Holder or Assistant Manager will always be on site during working hours and can provide information about the tank contents and cylinder contents to the Emergency Responders when asked. After hours the Owner can get to the site and engage with the Emergency Responders

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

7 minutes

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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 checked="" type="checkbox"/>	<input type="checkbox"/>
6. Are weighing systems validated for accuracy?	<input checked="" type="checkbox"/>	<input 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 checked="" type="checkbox"/>	<input 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 checked="" type="checkbox"/>	<input type="checkbox"/>
3. What is the unobstructed distance to the closest water supply that could be used for firefighting activities? (distance in metres only)	<u>120 m</u>	
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)	<u>N/A</u>	

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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.

B. 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:

None

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: _____

(dd-mmm-yyyy)

LOCAL FIRE SERVICES

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

Print name
Robert Simpson
Local Fire Services Name: Frank Biancucci, Fire Prevention Officer

Signature
[Signature]

Date (dd-mmm-yyyy)
10
29-09-2016

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Name of person completing this form (please print) Camille Jagdeo	Official Title Director
Signature <i>[Signature]</i>	Telephone No. 905.561.2481
	Date (dd-mmm-yyyy) 10-09-2016



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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) 10-09-2016	Capacity of single largest propane storage vessel (USWG) 2000 USWG
Tank setback coordinates. Indicate placement on the map.	
Front: 162.5 m	Right side property line: 39 m
Rear: 6.9 m	Left side property line: 18.4 m
GPS coordinates of single largest vessel: Long43°13'23.04"N Lat:79°41'51.95"W	

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SECTION C: SUBMISSIONS (cont'd)

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

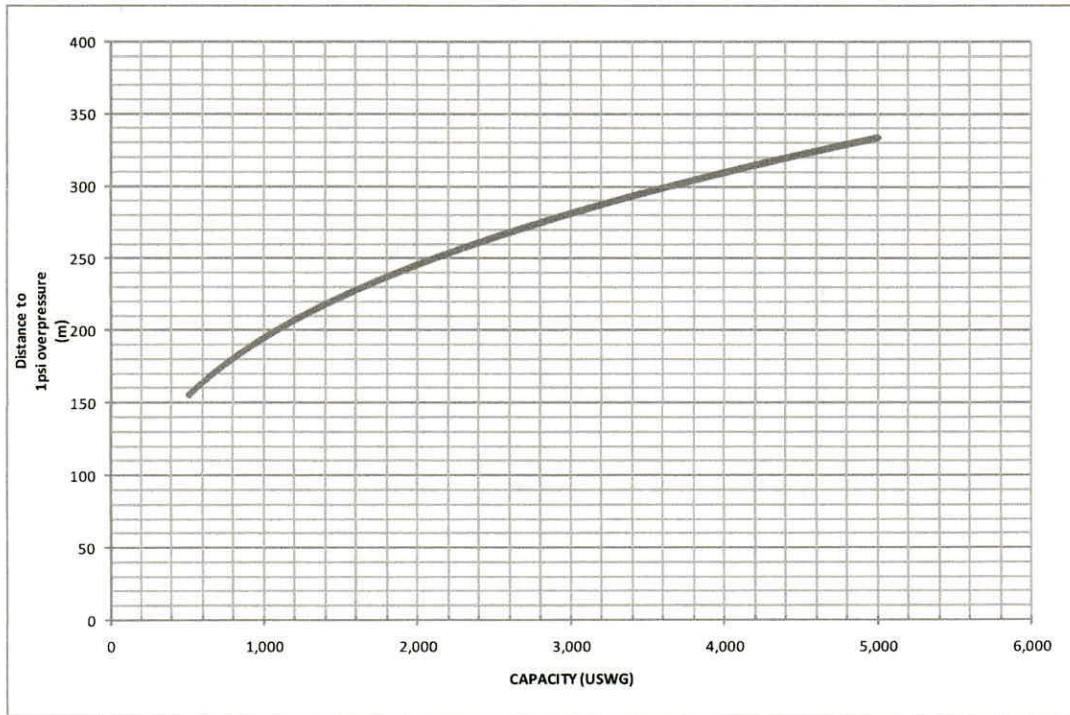
Table 1: Distance Table

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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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>IRS Truck & Trailer Repair</u> Address: <u>344 Fruitland Road</u> City: <u>Hamilton</u> Province <u>Ontario</u> Postal Code <u>L8E 5M8</u>			X		<u>107</u> m
Residential building units specifically permanent single family dwellings, condominiums, and apartments. [REDACTED]			X		<u>93</u> m
Commercial building units specifically retail, restaurants, entertainment, theatres, and sporting complexes. Name: <u>Tim Hortons</u> Address: <u>327 Fruitland Road</u> City: <u>Hamilton</u> Province <u>Ontario</u> Postal Code <u>L8E 5M8</u>			X		<u>186</u> m
Commercial building units – continuous occupancy specifically hotels, campgrounds, and resorts. Name: _____ Address: _____ City: _____ Province _____ Postal Code _____	X				_____ m
Sensitive institutions specifically hospitals, schools and day cares, nursing and retirement homes, mental health institutions, and prisons. Name: <u>Fruitland Crossing Medical Clinic</u> Address: <u>311 Fruitland Road</u> City: <u>Hamilton</u> Province <u>Ontario</u> Postal Code <u>L8E 5M8</u>			X		<u>197</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".

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Signature	Telephone No. <u>905.561.2481</u> Date (dd-mmm-yyyy) <u>10-09-2016</u>



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WORKSHEET

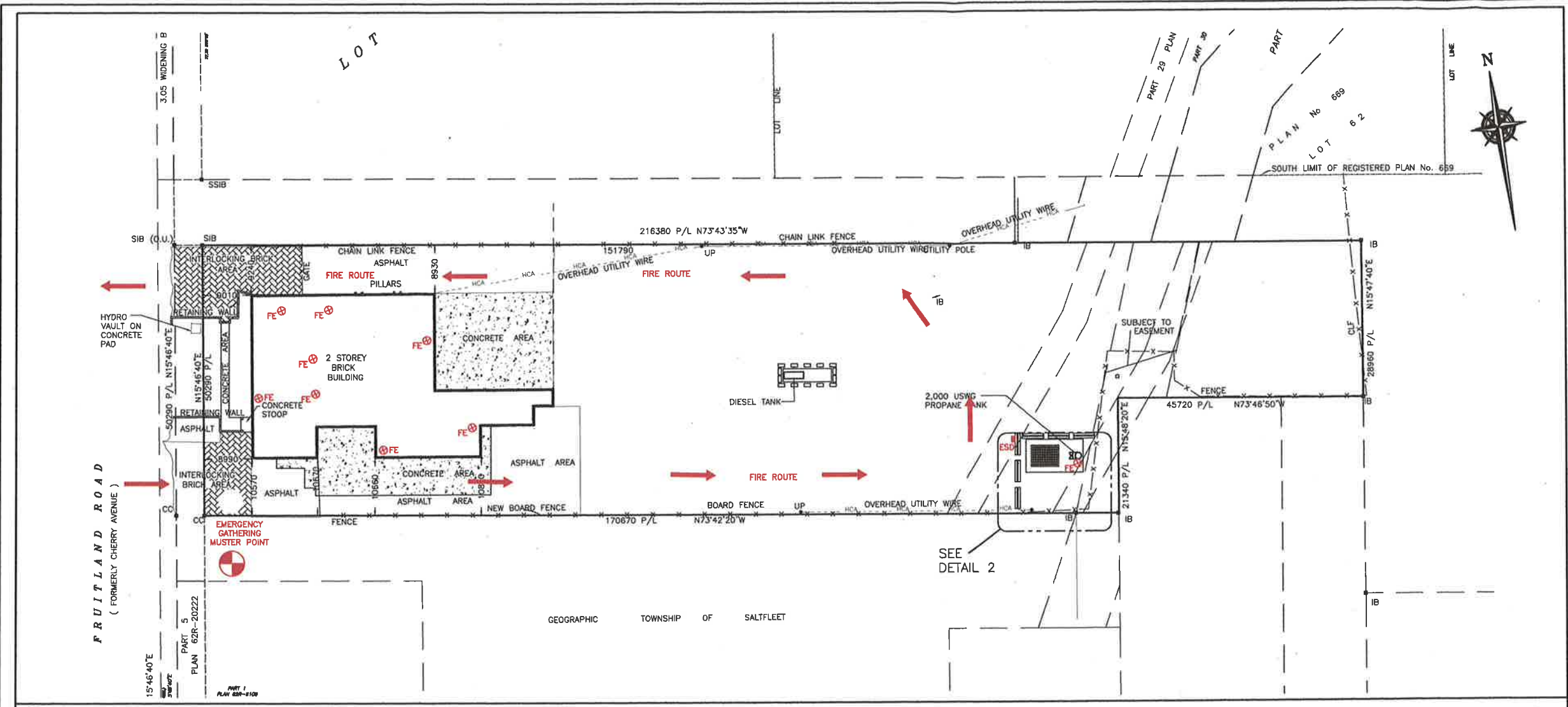
Portable Storage Additional Information Worksheet

Cylinder Size	Capacity in USWG	Quantity	Total Volume in USWG
# 420	123.9		
# 100	29.5	101	2980 USWG
# 40	11.75		
# 33.3	9.62		
# 30	8.8		
# 20	5.8		
# 10	2.9		
# 5	1.5		
Total Cylinder Capacity			2980 USWG

Tanks Stored On-site Not Connected for Use

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

Total Cylinder Capacity	2980 USWG
Total Tank Capacity	0 USWG
Total Portable Capacity (Total Cylinder Capacity + Total Tank Capacity)	2980 USWG



SITE DATA:

ZONING: M3
 LOT AREA: 9,912.7sq.m.
 BUILDING AREA: 1,170.7sq.m.
 LOT COVERAGE OF BUILDING: 11.8%

PROPERTY LINE SETBACKS FOR PROPANE TANK

WEST	162.5m
SOUTH	10.0m
EAST	6.9m
NORTH	39.0m

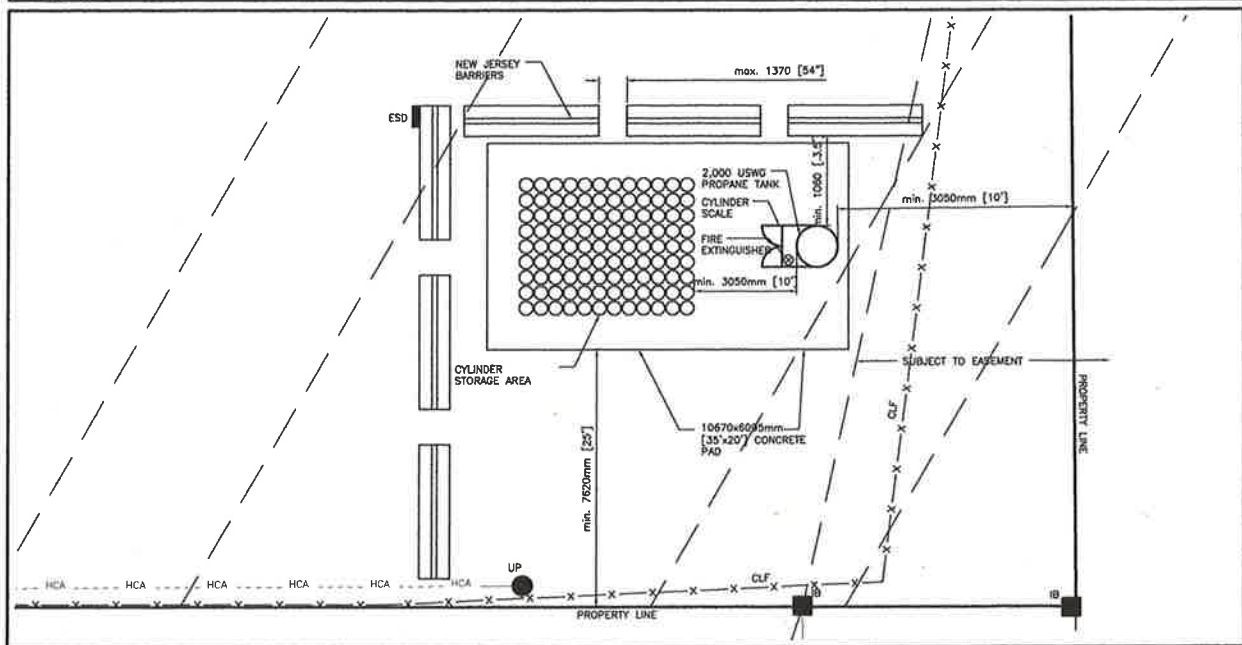
GPS COORDINATES

LATITUDE	LONGITUDE
43°13'23.04"N	79°41'51.95"W

LEGEND:

- FE ⊙ FIRE EXTINGUISHER
- FH ⊕ FIRE HYDRANT
- ESD ■ EMERGENCY SHUT-DOWN
- FIRE ROUTE
- ⊕ MUSTER POINT (OPTION BASED ON WIND DIRECTION)

1 SITE PLAN
1:400



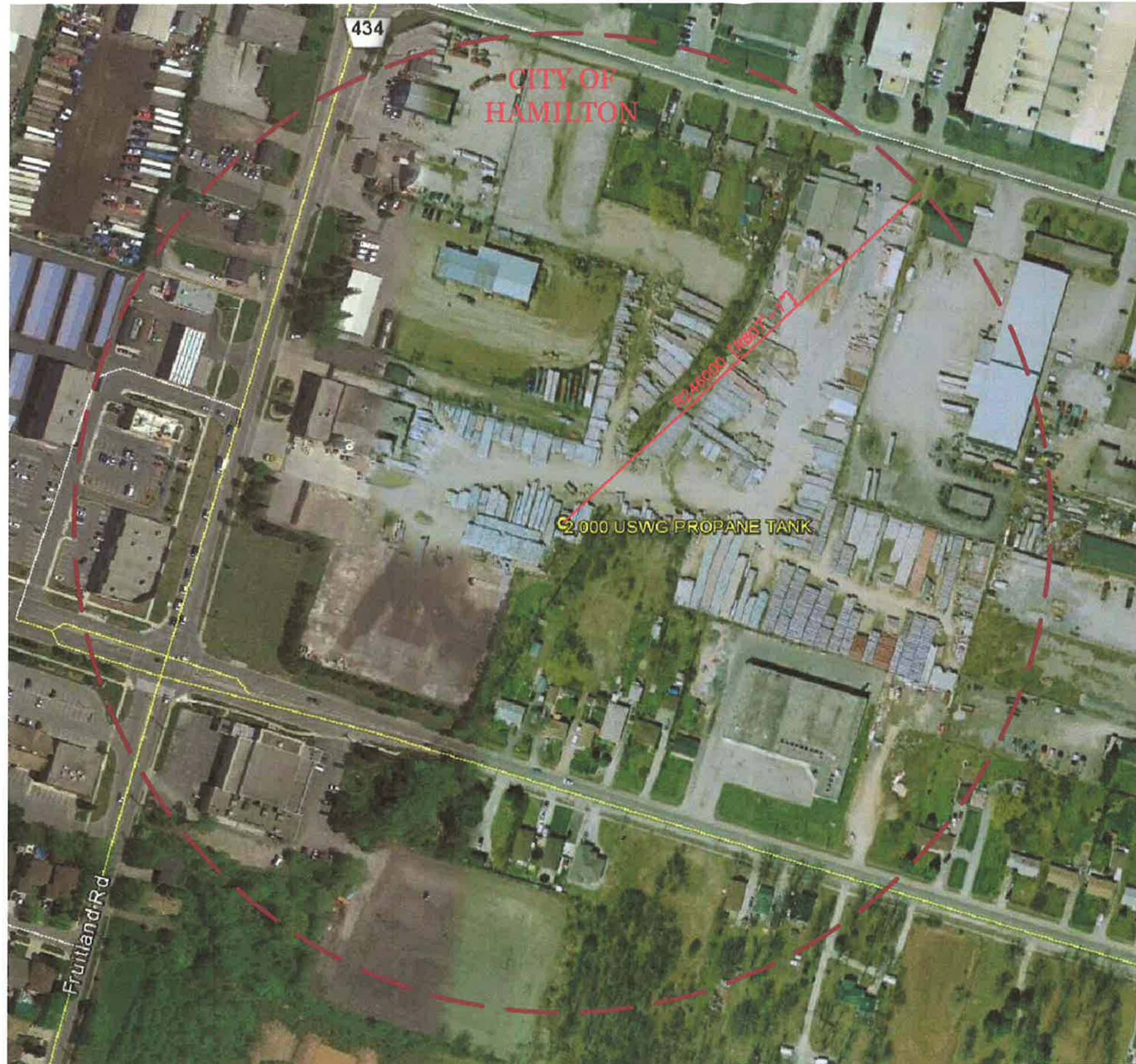
2 DETAIL 2,000 USWG PROPANE TANK
1:100

No.	Date	Description	By
2	SEP 12, '16	ISSUED FOR RSPM	JRK
1	AUG 24, '16	REVISED CONCRETE PAD	JRK
0	AUG 20, '16	ISSUED FOR ZONING	JRK



ALTENG Inc.
 Alternative Energy Consulting
 126 Holm Crescent, Thornhill, Ontario L3T 5J3
 Telephone: (905)764-1644 Fax: (905)764-5986

Project: HERC EQUIPMENT 330 Fruitland Road Hamilton, ON L8E 6M6	Drawn By: D.F. Checked By: J.R.K. Date: AUG. 15, '16
Drawing Title: EMERGENCY FIRE PLAN FOR PROPOSED 2,000 USWG PROPANE TANK w/ CYLINDER SCALE	ACAD INFORMATION Drawing File: 16130D-P-101 Drawing Size: D Plotting Scale: 1=1
Drawing Number: P-101	File Number: 16130D



NOTES:

CONSEQUENCE DISTANCE TO AN OVERPRESSURE LEVEL OF 1 psi BASED ON TNT-EQUIVALENCY METHOD, AS PER T.S.S.A. GUIDELINES FOR THE IMPLEMENTATION OF THE RISK AND SAFETY MANAGEMENT PLAN

$$D = 17 \times \left(0.1 \times W \times \frac{HC_1}{HC_{INT}} \right)^{1/3} = 246m$$

PROPERTY LINE SETBACKS FOR PROPANE TANK	
WEST	182.5m
SOUTH	10.0m
EAST	8.9m
NORTH	39.0m

GPS COORDINATES	
LATITUDE	LONGITUDE
43°13'23.04"N	79°41'51.95"W

AS PER TSSA GUIDELINES FOR THE IMPLEMENTATION OF THE RISK AND SAFETY MANAGEMENT PLAN, THIS FACILITY ONLY REQUIRES A LEVEL 1 RSMP SUBMISSION.

PLANNING ADVISORY INFORMATION:

CITY OF HAMILTON
71 MAIN STREET
HAMILTON, ON.
L8P 4Y8

ATTN: MS. ROSE CATERNI, CITY CLERK
PH#: 905.546.2424 EXT: 5409
FAX#: 905.540.5141
EMAIL: rosecatemi@hamilton.ca

No.	Date	Description	By
0	SEP. 12, '18	ISSUED FOR RSMP	JRK



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Project: HERC EQUIPMENT RENTAL Inc. 330 Fruitland Road Hamilton, ON L8E 6M8	Drawn By: D.F. Checked By: J.R.K. Date: SEP. 12, '18
Drawing Title: BLAST RADIUS LAYOUT FOR PROPOSED 2,000 USWG PROPANE TANK	ACAD INFORMATION Drawing File: 161300-P-200 Drawing Size: D Plotting Scale: 1=1
Drawing Number: P-200	File Number: 161300