



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

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.

A Company Name: Corporation No.:

Operator Name (if different from above):

Telephone No.: Fax No.: E-mail:

B Street No.: Street Name / 911 Number / Address, if applicable:

Town / City or Township / County: Province: Postal Code:

C Mailing address if different from above.

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

D Location of facility.


Street No.: Street Name / 911 Number / Address, if applicable: Nearest Major Intersection:

Town / City or Township / County: Province: Postal Code:

Name of Licence Holder:


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

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

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 <input type="text" value="Aldo Lombardi"/>		<input type="text" value="31-05-2016"/>
Name of Senior Management person as defined in the Regulation holding the Record of Training <input type="text" value="Aldo Lombardi"/>		<input type="text" value="31-05-2016"/>



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SECTION A: GENERAL INFORMATION (cont'd)

Indicate the year the facility was established. 2016 Indicate the year of any significant modifications, as defined in s.1, O.Reg 211/01, since establishment. New Facility so no Upgrades

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

	PSIG	Serial Number
Tank1:	<u>250</u>	<u>826-06</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: 1999 USWG Portable: 417.6 USWG Mobile: 0 USWG

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Name of person completing this form (please print) <u>Aldo Lombardi</u>	Official Title <u>Dealer</u>	
Signature 	Telephone No. <u>807.223.4026</u>	Date (dd-mmm-yyyy) <u>31-05-2016</u>



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SECTION A: GENERAL INFORMATION (cont'd)

Activity Information

Name of Propane Supplier(s) Superior Propane		For Office Use - Party No.	
Street No. 30	Street Name / 911 Number / Address, if applicable Kieth Avenue		
Town / City or Township / Country Dryden		Province Ontario	Postal Code P8N 2Z4
Telephone No. 807.939.1235	Fax No. 807.939.2825	Contact Name Pierre Fortin	
E-mail pierre_fortin@superiorpropane.com			

Name of Propane Transporter. If same as above, please check box. <input type="checkbox"/>		For Office Use - Party No.	
Trimac Transportation			
Street No. 1700	Street Name / 911 Number / Address, if applicable 800 5th Avenue SW <i>P.O. Box 3500</i>		
Town / City or Township / Country Calgary		Province Alberta	Postal Code T2P 5A3 <i>2P9</i>
Telephone No. 403-298-5100	Fax No. 403-298-5146	Contact Name Dale Eaid	
E-mail N/A			

Costs per their separate document on website.

Off-site Cylinder and/or Mobile Storage		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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Signature 		Telephone No. 807.223.4026	Date (dd-mmm-yyyy) 31-05-2016



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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.

There are no other hazardous substances located on the property but there are small amounts of waste oil and other lubricants stored in the repair bays and there are some very small propane cannisters located in the main store.

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

Fire extinguishers located at the propane tank installation and a number inside the main store and lube bays

Emergency Shut down button is located at the tank on one of the posts

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.

Emergency stop push button at the tank that shuts down the pump and stops flow to the scale. Fusible link on suction side will melt if a fire occurs and this will automatically close the ISC valve and stop fuel from releasing from the tank.

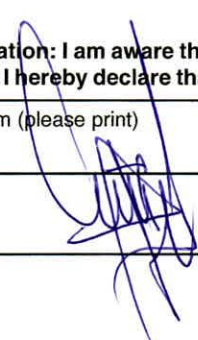
Fire Extinguishers are checked monthly by Canadian Tire and annually by

Maintenance and testing schedule for fire protection controls and devices.

Maintenance and testing is undertaken by Superior Propane. Schedule for key equipment is:

1. Pumps, Pump motor, ISC valves inspected and tested yearly.
2. Storage tank Relief Valves - inspected to meet provincial regulations
3. Fire extinguishers maintained by owner in accordance with Ontario fire regulations. Maintenance records are to be retained by Licensee.

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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 <u>Aldo Lombardi</u>	For Office Use - Party No.	Name <u>Aldo Lombardi</u>	For Office Use - Party No.
Official Title <u>Dealer</u>		Official Title <u>Dealer</u>	
Telephone No. <u>807.223.4026</u>	Fax No. <u>807.223.4243</u>	Cell No. <u>905.979.8984</u>	Fax No. <u>807.223.4243</u>
E-mail <u>alombardi44@gmail.com</u>		E-mail <u>alombardi44@gmail.com</u>	
Role and responsibilities in emergency <u>Insures all staff are trained on the Emergency Response and also makes call to Fire & Police by calling 9-1-1. Insures Fire Plan is followed.</u>		Role and responsibilities in emergency <u>Same as Item 1</u>	
2. Facility Contact Personnel - Alternate Contact		6. Name of Facility Manager	
Name <u>Christopher Lynch</u>	For Office Use - Party No.	Name <u>Kevin Luhowy</u>	For Office Use - Party No.
Official Title <u>Assistant Manager</u>		Official Title <u>General Manager</u>	
Telephone No. <u>807.223.4026</u>	Fax No. <u>807.223.4243</u>	Telephone No. <u>807.223.4026</u>	Fax No. <u>807.223.4243</u>
E-mail <u>N/A</u>		E-mail <u>N/A</u>	
Role and responsibilities in emergency <u>In absence of Manager, fulfills the same responsibility as the Manager and calls 9-1-1 and insures customers leave the auto garage area</u>		Role and responsibilities in emergency <u>Assists with evacuation of store employees and customers in event of emergency and insures all fire equipment is maintained.</u>	
3. Local Fire Services - Key Contact		7. Propane Supplier Key Contact Person	
Name <u>Ken Kurz</u>	For Office Use - Party No.	Name <u>Pierre Fortin</u>	For Office Use - Party No.
Official Title <u>Fire Chief/CEMC</u>	E-mail <u>kkurz@dryden.ca</u>	Official Title <u>Territory Account Manager</u>	E-mail <u>Pierre_Fortin@superiorpropane.com</u>
Telephone No. <u>807-223-1178</u>	Fax No. <u>807-223-7284</u>	Telephone No. <u>807.632.6843</u>	Fax No. <u>807.939.2825</u>
Role and responsibilities in emergency <u>Coordinates Fire Services resources and assigns tasks. Reports to City Council and manages Fire Department budget.</u>		Role and responsibilities in emergency <u>Identify and dispatch Superior Propane and or LPERGC emergency response personnel as required.</u>	
Fire Services Address <u>Fire Service Dryden, 189 Colonization Ave., Dryden, ON. P8N 2M6</u>		Propane Supplier Address <u>1265 E Arthur Street, Thunder Bay, ON. P7E 6E7</u>	
4. Local Fire Services - Alternate Contact		8. Municipal Contact	
Name <u>Cam McMillan</u>	For Office Use - Party No.	Name <u>Bob Cunningham</u>	For Office Use - Party No.
Official Title <u>Deputy Fire Chief</u>	E-mail <u>cmcmillan@dryden.ca</u>	Official Title <u>Community & Development Services Manager</u>	
Telephone No. <u>807-223-1177</u>	Fax No. <u>807-223-7284</u>	Telephone No. <u>807-223-1140</u>	Fax No. <u>807-223-6141</u>
Role and responsibilities in emergency <u>Assists Fire Chief as required and administrates Fire Prevention Services.</u>		E-mail <u>bcunningham@dryden.ca</u>	
Fire Services Address <u>Fire Service Dryden, 189 Colonization Ave., Dryden, ON. P8N 2M6</u>		Municipality Name and Address <u>City of Dryden, 30 Van Horne Avenue, Dryden, ON. P8N 2A7</u>	

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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) 20-06-2016	Print Name of Training Provider: Canadian Tire Dryden
	Print Name of Instructor: Aldo Lombardi
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) 20-06-2016	Print Name of Training Provider: Canadian Tire Dryden
	Print Name of Instructor: Aldo Lombardi
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) 15-06-2016	Print Name of Training Provider: Superior Propane
	Print Name of Instructor: Pierre R. Fortin
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. 807.223.4026
	Date (dd-mmm-yyyy) 31-06-2016



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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) 18-06-2017	Print Name of Training Provider: Canadian Tire Dryden
	Print Name of Instructor: Aldo Lombardi
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) 18-06-2017	Print Name of Training Provider: Canadian Tire Dryden
	Print Name of Instructor: Aldo Lombardi
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) 10-05-2019	Print Name of Training Provider: Superior Propane
	Print Name of Instructor: Pierre Fortin
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.

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 type="checkbox"/>	<input checked="" 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 type="checkbox"/>	<input checked="" 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>33 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 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) <u>25-05-2016</u>	Capacity of single largest propane storage vessel (USWG) <u>1999 USWG</u>
Tank setback coordinates. Indicate placement on the map.	
Front: <u>84.5 m</u>	Right side property line: <u>110.3 m</u>
Rear: <u>109.2 m</u>	Left side property line: <u>3.2 m</u>
GPS coordinates of single largest vessel: <u>Long49°47'14.09"N Lat92°49'46.59"W</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.

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
<input checked="" type="checkbox"/>	<input type="checkbox"/>

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

Fire services comments, if any:

NOTE - INSPECTION OR COMPLETION OF PROJECT AS TO TSSA AND OFC REQUIRING.

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: 2016-06-16.
(dd-mmm-yyyy)

LOCAL FIRE SERVICES

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

Print name	Signature	Date (dd-mmm-yyyy)
Local Fire Services Name Ken Kurz, Fire Chief	<i>[Signature]</i>	09-06-2016

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SECTION C: SUBMISSIONS (cont'd)

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

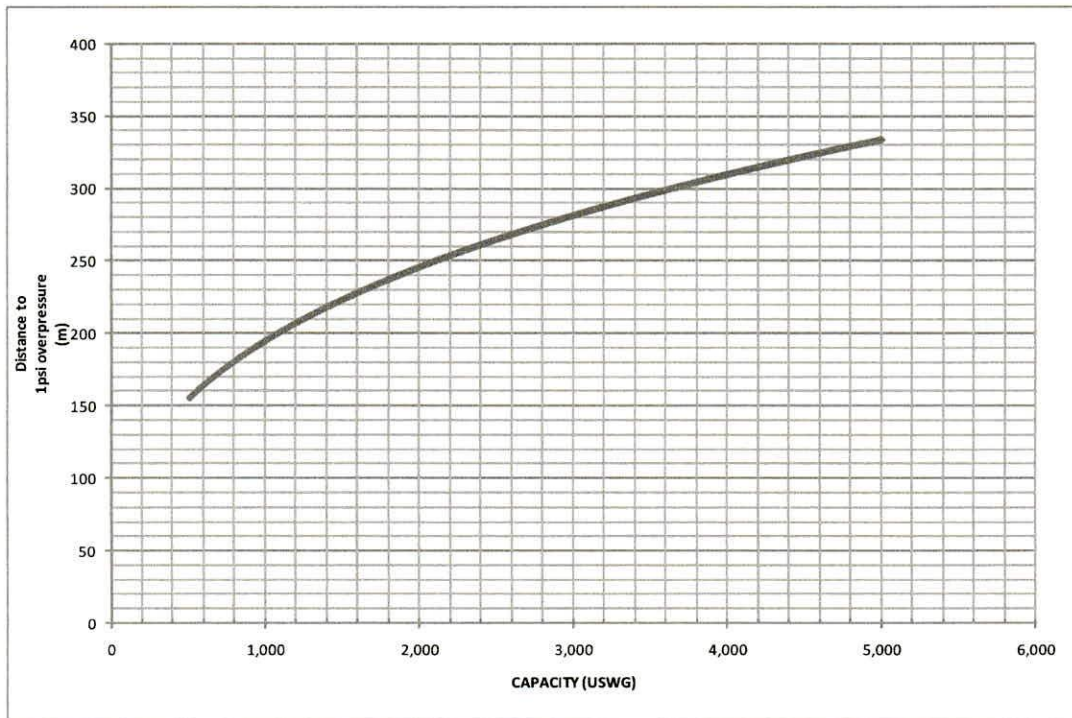
Table 1: Distance Table

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: _____ Address: _____ City: _____ Province _____ Postal Code _____	X				_____ m
Residential building units specifically permanent single family dwellings, condominiums, and apartments. [Redacted]			X		138.5 m
Commercial building units specifically retail, restaurants, entertainment, theatres, and sporting complexes. Name: <u>Pizza Hut</u> Address: <u>397 Government Street</u> City: <u>Dryden</u> Province <u>Ontario</u> Postal Code <u>P8N 2P4</u>			X		50 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: _____ Address: _____ City: _____ Province _____ Postal Code _____	X				_____ 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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Propane Storage and Handling Regulation

WORKSHEET

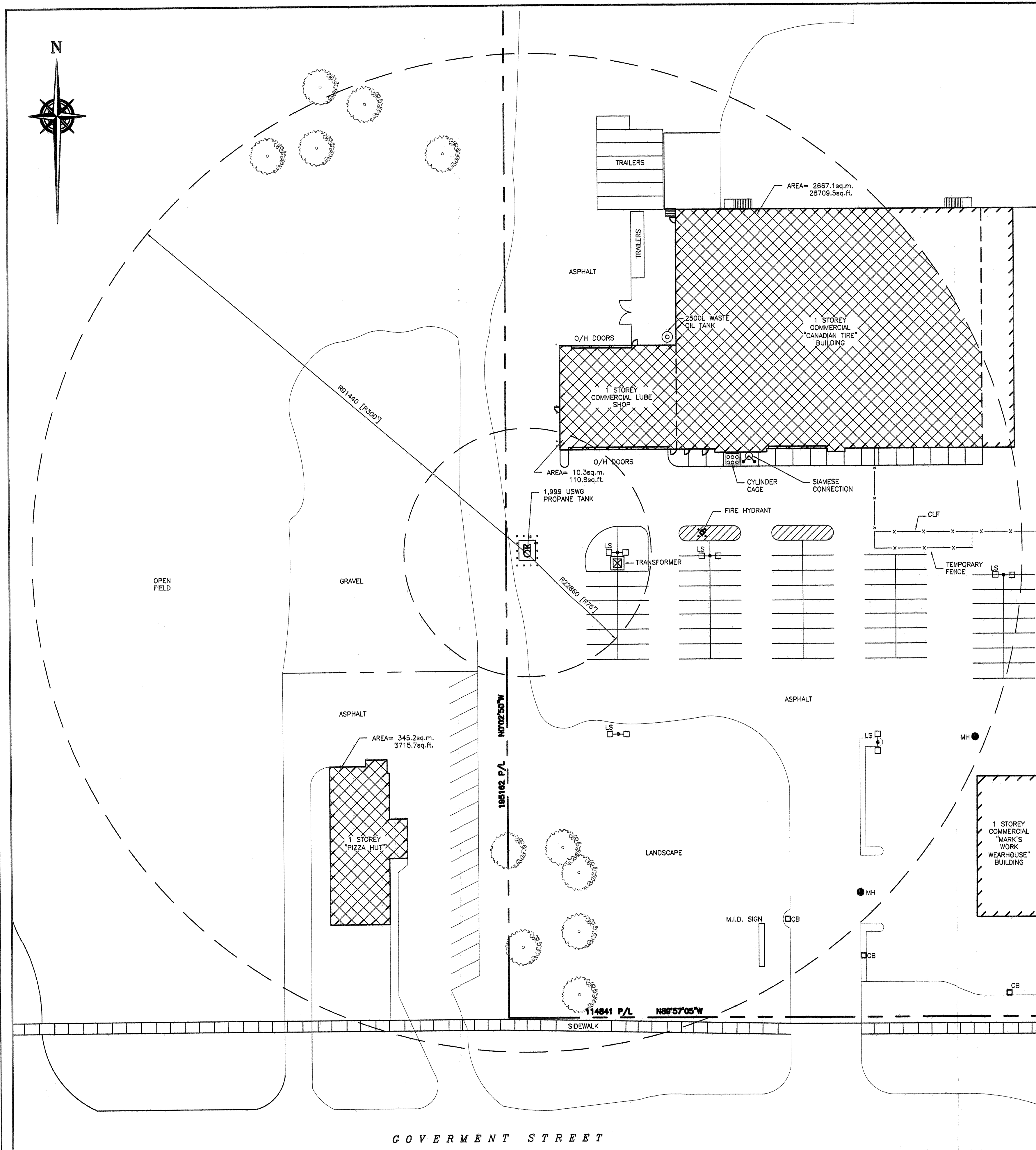
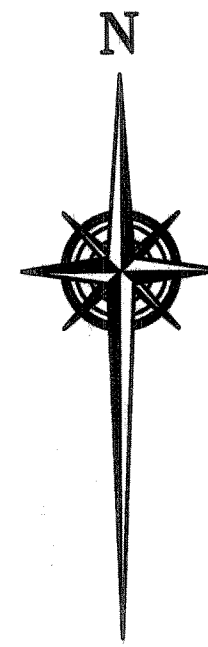
Portable Storage Additional Information Worksheet

Cylinder Size	Capacity in USWG	Quantity	Total Volume in USWG
# 420	123.9		
# 100	29.5		
# 40	11.75		
# 33.3	9.62		
# 30	8.8		
# 20	5.8	72	417.6
# 10	2.9		
# 5	1.5		
Total Cylinder Capacity			417.6 USWG

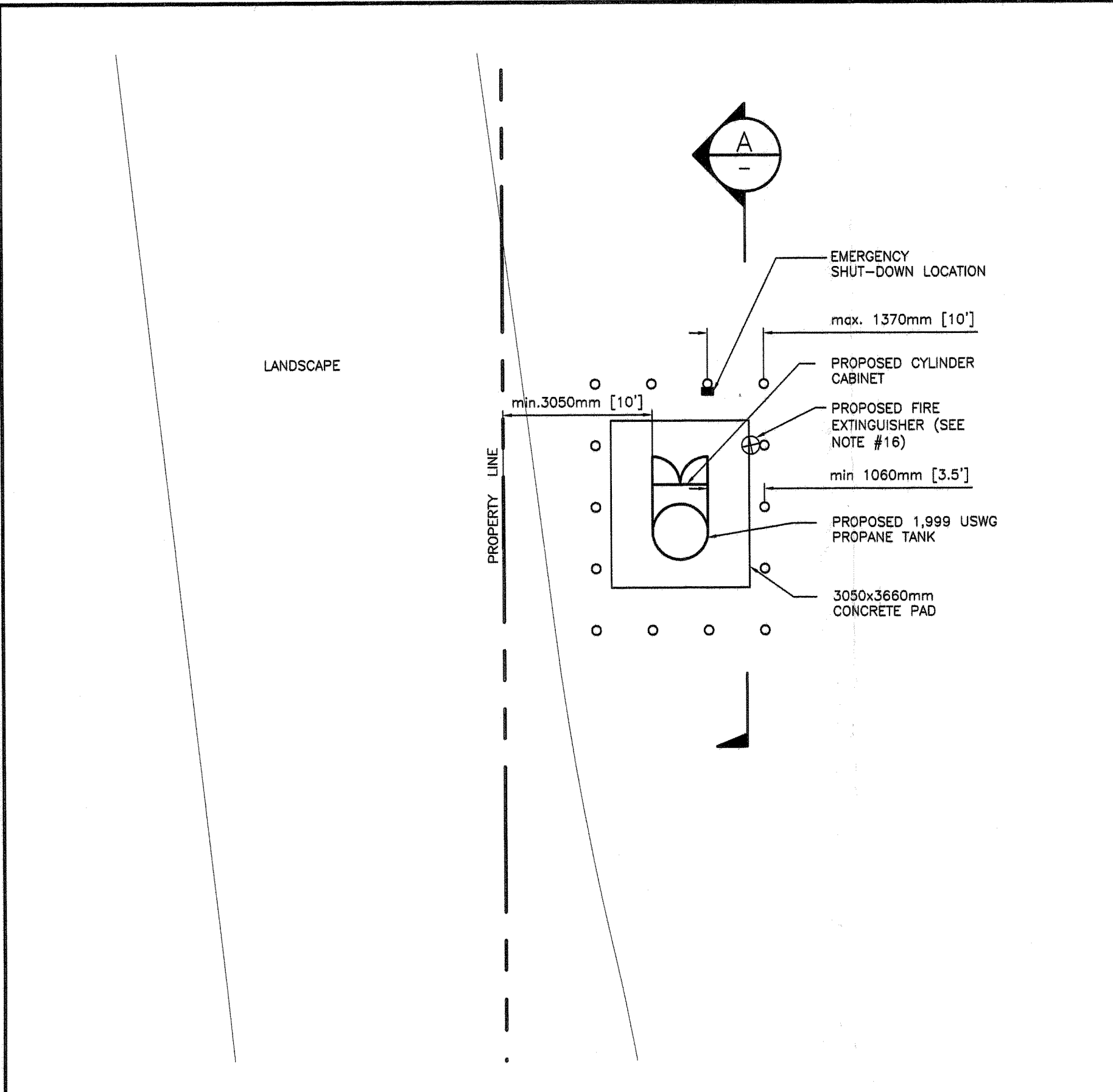
Tanks Stored On-site Not Connected for Use

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

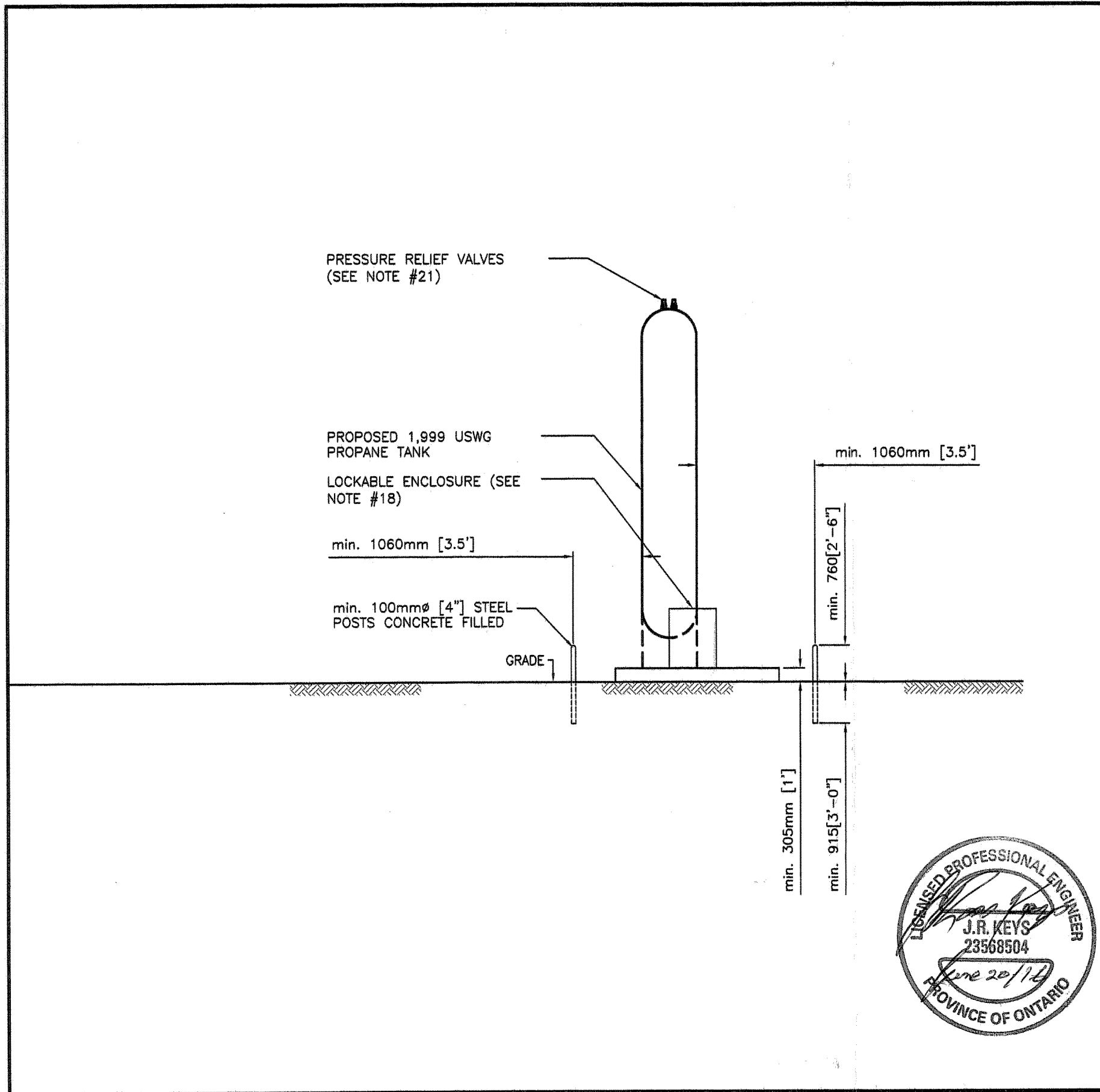
Total Cylinder Capacity	417.6 USWG
Total Tank Capacity	0 USWG
Total Portable Capacity (Total Cylinder Capacity + Total Tank Capacity)	417.6 USWG



1 SITE PLAN
1:400



2 PLAN DETAIL 1,999 USWG TANK INSTALLATION
1:100



A DETAIL ELEVATION OF TANK
1:100

NOTES:

- AREAS SHOWN REPRESENT PORTIONS OF BUILDINGS BOUNDED BY THE 0-75 FEET AND 75-300 FEET RADI AS INDICATED.
- AREAS CALCULATED ARE USED FOR TSSA PROPANE BRANCH STANDARD #9 REQUIREMENTS.
- AREA REQUIREMENTS FOR BRANCH STANDARD #9 IS 6,706.7 sq. ft., WHICH IS LESS THAN THE 15,000sq.ft. RESTRICTION. FACILITY IS IN COMPLIANCE WITH BRANCH STANDARD #9.
- SITE IS IN COMPLIANCE WITH THE B149.1-10 & B149.2-10 CODES REQUIREMENTS, AS PER APPROVED DISTANCES IF LOCATED AS SHOWN. ALL EQUIPMENT IS TO MEET APPLICABLE CODE REQUIREMENTS.
- ANY UPPER STORIES OF BUILDINGS THAT FALL WITHIN THE 75 FEET AND 300 FEET RADI ARE ALSO USED IN CALCULATING BRANCH STANDARD #9 LIMITS.
- INFORMATION TAKEN DURING SITE VISIT PERFORMED BY ALTENG PERSONNEL ON MAY 16 2015 TO CONFIRM SITE CONDITIONS.
- ALL MECHANICAL AND ELECTRICAL EQUIPMENT TO BE APPROVED FOR PROPANE USE AND INSTALLED IN THE APPROPRIATE CLASSIFIED AREAS (i.e. HAZARDOUS, NON-HAZARDOUS, ETC.)
- ELECTRICAL EQUIPMENT IN THE VICINITY OF THE PROPANE TANK MUST BE APPROVED FOR CLASS 1, ZONE 1 AND ZONE 2, GROUP IIA HAZARDOUS LOCATIONS AS REQUIRED BY THE CEC LATEST EDITION.
- FACILITY USED FOR RETAIL CYLINDER FILLING ONLY.
- DISTANCES OF TANK AND ITS RELATED EQUIPMENT FROM CATCH BASINS TO BE MINIMUM 7.62 m (25 ft.) AS PER THE B149.2-10 CODE. INSTALLER TO VERIFY SITE CONDITIONS ARE IN COMPLIANCE.
- OCCUPANCY CLASSIFICATIONS HAVE BEEN SELECTED BY "MAIN OCCUPANCY" AS DEFINED BY THE ONTARIO BUILDING CODE 2007. WHERE DUAL OCCUPANCY CLASSIFICATIONS EXIST, THE MAIN FUNCTION HAS BEEN PRESUMED. (i.e. MERCANTILE 30% INDUSTRIAL 70%, F CLASSIFICATION USED.) UNLESS OTHERWISE SHOWN.
- SIGNS COMPLYING WITH CLAUSE 7.20.6 OF THE PROPANE STORAGE AND HANDLING CODE B149.2-10, SHALL BE PROMINENTLY DISPLAYED.
- ANY TANK DIMENSIONS ARE TYPICAL, ACTUAL TANK DIMENSIONS MAY VARY.
- PROPANE AND ELECTRICAL SHUTDOWN MUST BE PROVIDED FOR PROPANE DISPENSING EQUIPMENT AS PER CLAUSE 7.19.1.7 OF B149.2-10. THIS MUST BE INSTALLED.
- TANK MUST BE MORE THAN 3 m (10 ft.) FROM UNDERGROUND PETROLEUM TANKS, SECTION 7.1.8.
- PORTABLE FIRE EXTINGUISHER NOT LESS THEN 20-B-C RATING TO BE MOUNTED AT SITE AS PER SUB CLAUSE 7.19.1.6.
- PROPANE TRANSPORTATION VEHICLES (i.e. BULK TRUCKS) ARE NOT ALLOWED TO PARK OVERNIGHT ON THIS SITE AND OWNER WILL NOT BE SUBJECT TO CLAUSES 8.15.4 AND 8.15.5 OF THE B149.2-10 PROPANE CODE.
- PROTECTION OF PRIMARY VALVES BY A CABINET CONSTRUCTED AS PER SUB CLAUSE 7.19.3 CAN ELIMINATE THE NEED OF ENCLOSING THE TANK BY FENCING AS PER SUB CLAUSE 7.19.2. THIS FACILITY NEEDS AN ENCLOSURE.
- ANY FENCES TO BE CONSTRUCTED IN ACCORDANCE WITH CLAUSE 6.5.2.1 (a) OR (b) OF B149.2-10.
- ANY UNDERGROUND PIPING MUST BE CATHODICALLY PROTECTED AS PER CLAUSE 7.8.3 OF B149.2-10.
- PRESSURE RELIEF VALVES ARE REGO MODEL 8685G FOR 1 1/4" CONNECTION WITH RELIEF CAPACITY OF 4,035 SOFM & REGO MODEL 8684G FOR 1" CONNECTION WITH RELIEF CAPACITY OF 2,965 SOFM.
- DRAWING FOR TSSA APPROVAL ONLY.

PROPANE BRANCH STANDARD NUMBER 9 STATISTICS		
AREAS	DESCRIPTION	AREA MEASURED (SQ.FT)
AREA A	INDUSTRIAL AREA WITHIN 75'	0.0
AREA B	NON-INDUSTRIAL AREA WITHIN 75'	110.8
AREA C	INDUSTRIAL AREA BETWEEN 75' AND 300'	0.0
AREA D	NON-INDUSTRIAL AREA BETWEEN 75' AND 300'	32,425.2
AREA E	AREA A + (2 x AREA B)	221.7
AREA F	AREA C + (2 x AREA D)	64,850.4
A/G TANK AREA	AREA E + (0.1 x AREA F)	6,706.7

No.	Date	Description	By
1	JUN 26, '16	PROPANE TANK CONCRETE PAD SIZE REVISED	JRK
0	MAY 29, '16	ISSUED FOR T.S.S.A. APPROVAL	JRK

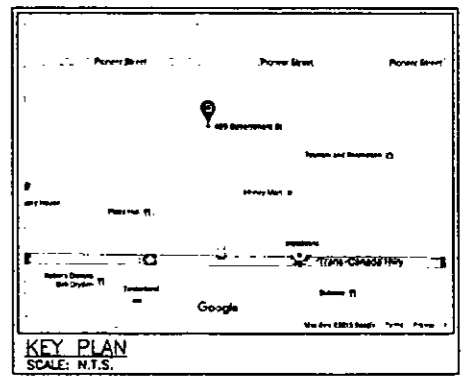
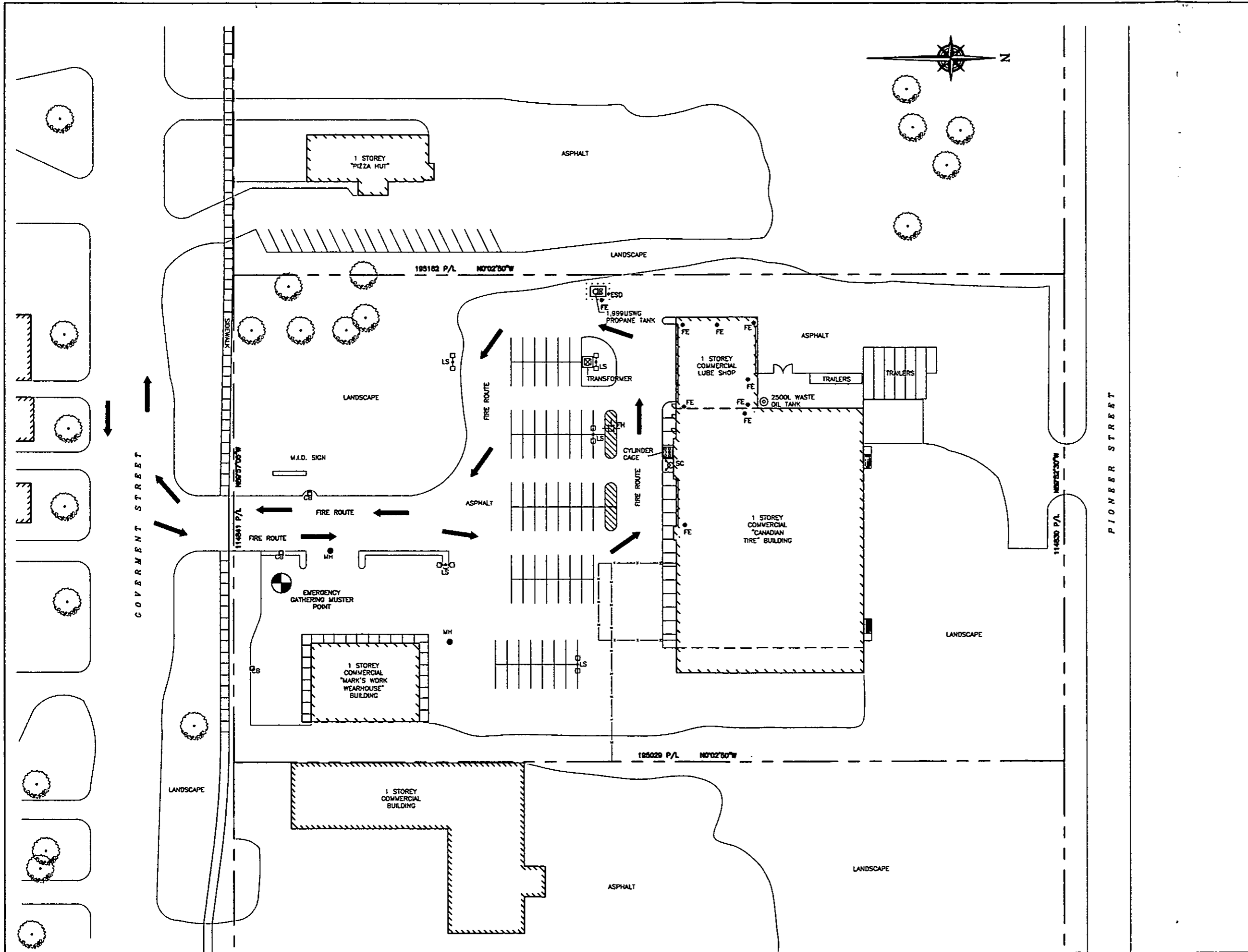
REVISIONS



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

Project: CANADIAN TIRE ASSOCIATE STORE #188 409 GOVERNMENT STREET DRYDEN, ON PBN 2P4	Drawn By: D.F. Checked By: J.R.K. Date: MAY 25, '16								
Drawing Title: PROPOSED 1,999 USWG VERTICAL PROPANE TANK c/w RETAIL CYLINDER SCALE	Drawing Scale: AS SHOWN								
Drawing Number: P-100	File Number: 16100D								
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ACAD INFORMATION									
Drawing File:	16100D-P-100								
Drawing Size:	D								
Plotting Scale:	1=1								

SR 1900936



SITE DATA:

ZONING INFORMATION: HIGHWAY COMMERCIAL (CH)

LOT AREA: 22,350.0sq.m.

BUILDING AREA: 3634.9sq.m.

LOT COVERAGE OF BUILDING: 16.2%

PROPERTY LINE SETBACKS FOR PROPANE TANK

NORTH	109.2m
SOUTH	84.3m
EAST	110.3m
WEST	3.2m

GPS COORDINATES

LATITUDE	LONGITUDE
49°47'14.09"N	92°49'46.59"W

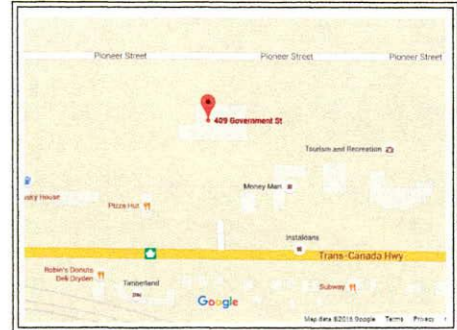
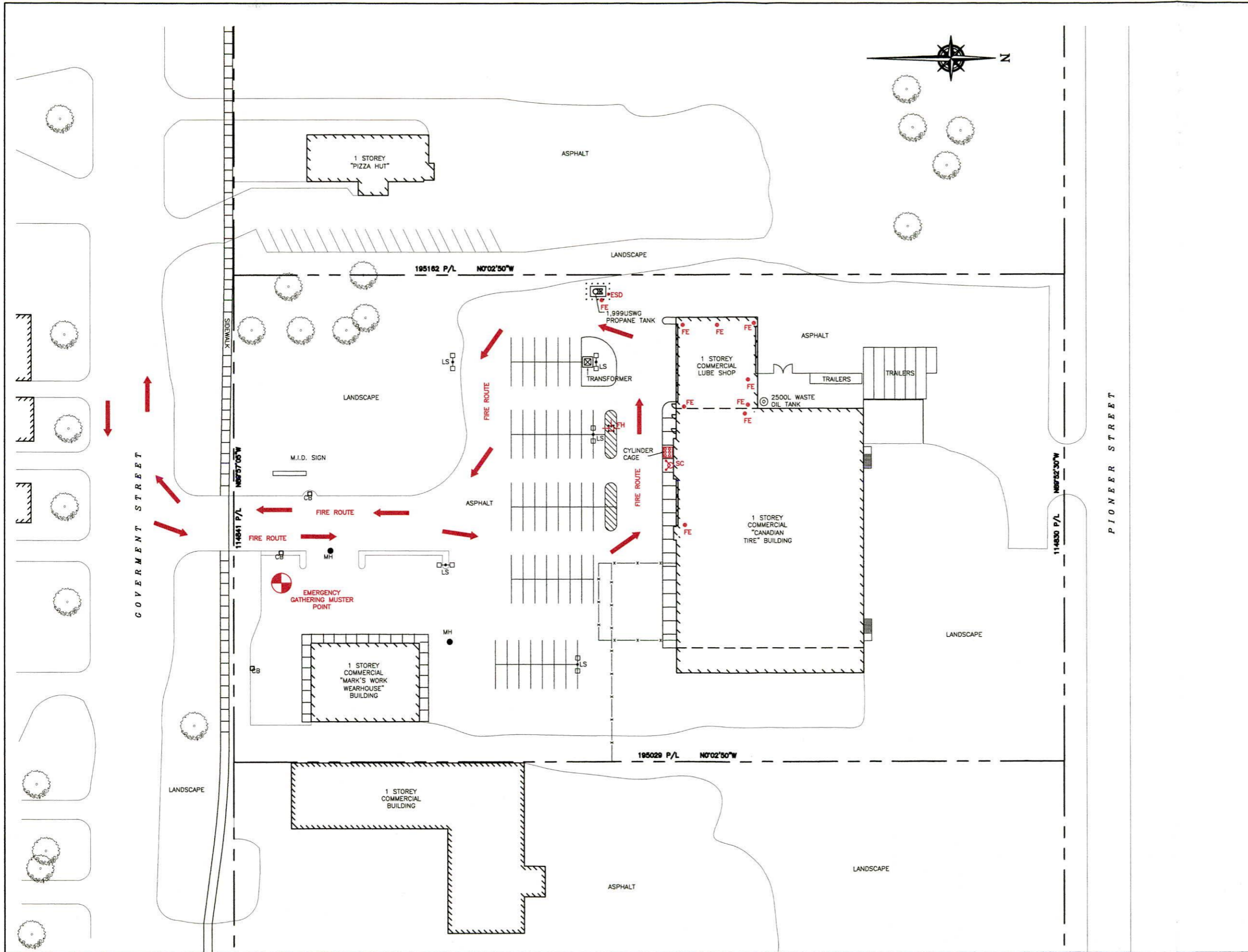
- LEGEND:**
- FE ⊙ FIRE EXTINGUISHER
 - FH ⊕ FIRE HYDRANT
 - SC ⊕ SWAGEE CONNECTION
 - ESD ⊕ EMERGENCY SHUT-DOWN
 - ➔ FIRE ROUTE
 - ⊙ MUSTER POINT (OPTION BASED ON WIND DIRECTION)

0	MAY 25, '18	ISSUED FOR RSM*	JRK
No.	Date	Description	By



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 126 Holm Crescent, Thornhill, Ontario L3T 5J3
 Telephone: (905)764-1644 Fax: (905)764-5985

Project: CANADIAN TIRE ASSOCIATE STORE #188 408 GOVERNMENT STREET DRYOEN, ON P8N 2P4	Drawn By: D.J.F. Checked By: J.R.K. Date: MAY 25, '18								
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Drawing Number: P-100	File Number: 161000								
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Drawing File:	161000-P-100								
Drawing Size:	D								
Plotting Scale:	1=1								



KEY PLAN
SCALE: N.T.S.

SITE DATA:

ZONING INFORMATION:	HIGHWAY COMMERCIAL (CH)
LOT AREA:	22,350.0sq.m.
BUILDING AREA:	3634.9sq.m.
LOT COVERAGE OF BUILDING:	16.2%

PROPERTY LINE SETBACKS FOR PROPANE TANK

NORTH	109.2m
SOUTH	84.5m
EAST	110.3m
WEST	3.2m

GPS COORDINATES

LATITUDE	LONGITUDE
49°47'14.09"N	92°49'46.59"W

LEGEND:

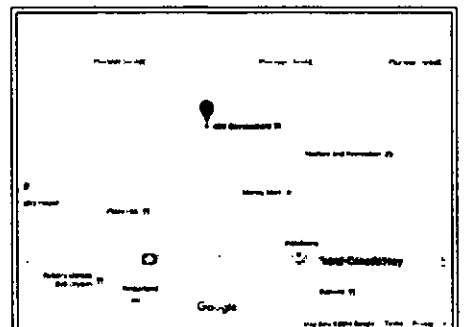
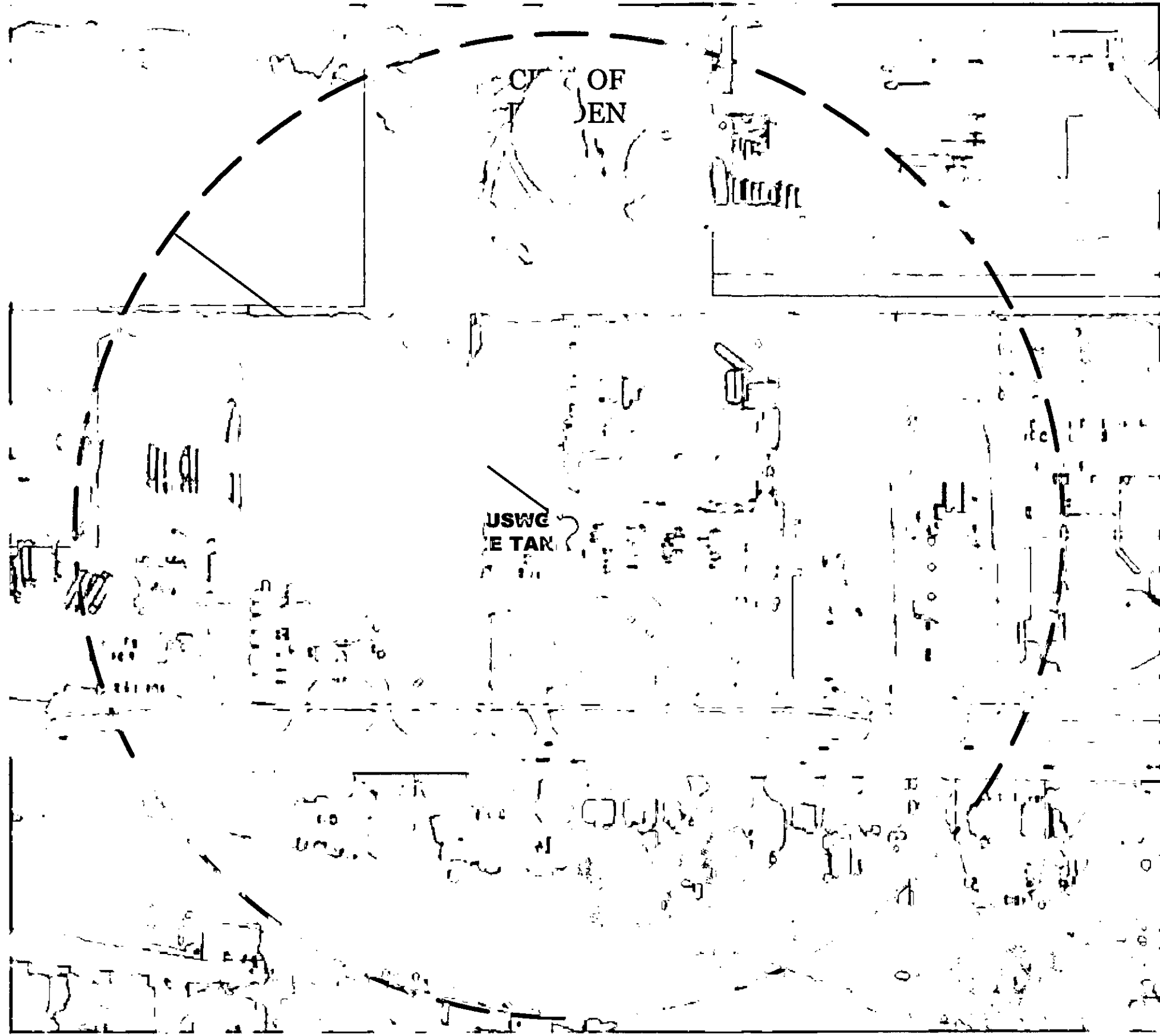
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- ➔ FIRE ROUTE
- ⊙ MUSTER POINT (OPTION BASED ON WIND DIRECTION)

0	MAY 25, '16	ISSUED FOR RSMP	JRK
No.	Date	Description	By



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Project: CANADIAN TIRE ASSOCIATE STORE #188 408 GOVERNMENT STREET DRYDEN, ON P6N 2P4	Drawn By: D.F. Checked By: J.R.K. Date: MAY 25, '16								
Drawing Title: EMERGENCY FIRE PLAN FOR 1,999 USWG VERTICAL PROPANE TANK c/w RETAIL CYLINDER SCALE	Drawing Scale: AS SHOWN								
Drawing Number: P-100	File Number: 16100D								
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ACAD INFORMATION									
Drawing File:	16100D-P-100								
Drawing Size:	0								
Plotting Scale:	1=1								



KEY PLAN
SCALE: N.T.S.

NOTES:

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

$$D = 17 \times \left(0.1 \times W_p \times \frac{HC_i}{HC_{crit}} \right)^{1/3} = 216m$$

PROPERTY LINE SETBACKS FOR PROPANE TANK

NORTH	109.2m
SOUTH	84.5m
EAST	110.3m
WEST	3.2m

GPS COORDINATES

LATITUDE	LONGITUDE
49°47'14.09"N	92°49'46.50"W

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

PLANNING ADVISORY INFORMATION:

CITY OF DRYDEN
30 VAN HORNE AVENUE
DRYDEN, ON.
P8N 2A7

ATTN: MR. BOB CUNNINGHAM
PH#: 607.223.1140
FAX#: 607.223.8141
EMAIL: bcunningham@dryden.ca

0	MAY 25, '18	ISSUED FOR RSMF	JRK
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No.	Date	Description	By
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REVISIONS



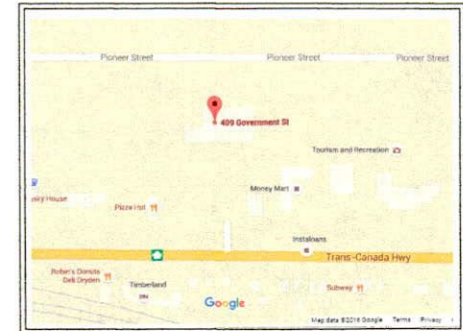
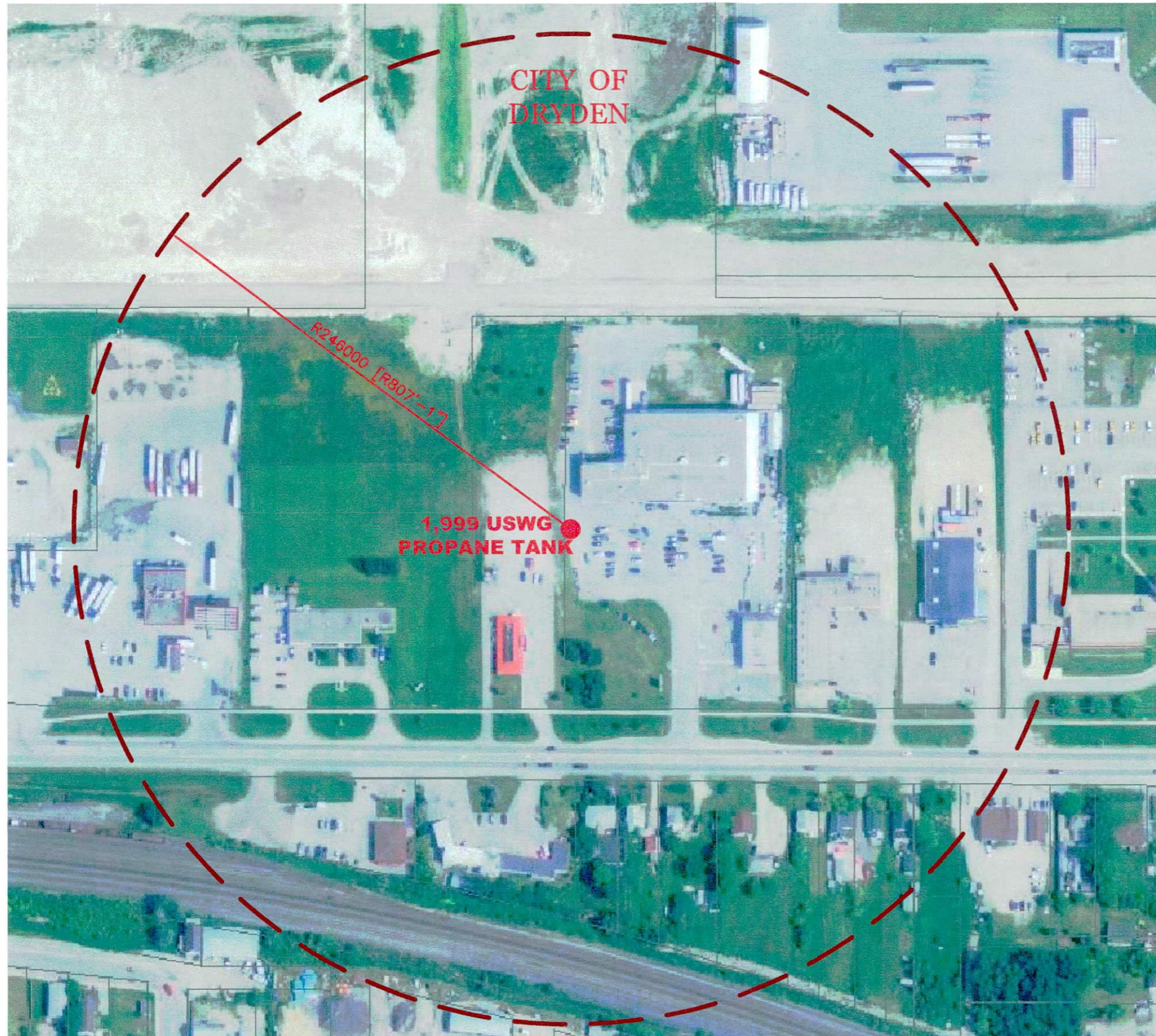
ALTENG Inc.
Alternative Energy Consulting

126 Holm Crescent, Thornhill, Ontario L3T 5J3
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Project:	Drawn By: D.J.F.
CANADIAN TIRE ASSOCIATE STORE #188 408 GOVERNMENT STREET DRYDEN, ON P8N 2P4	Checked By: J.J.L.
	Date: MAY 25, '18

Drawing Title:	Drawing Scale: 1:1000
BLAST RADIUS LAYOUT FOR 1,000 USWG VERTICAL PROPANE TANK c/w RETAIL CYLINDER SCALE	ACAD INFORMATION
Drawing Number:	Drawing File: 161000-P-200
P-200	Drawing Size: 0
	Plotting Scale: 1=1

Drawing Number:	File Number:
P-200	161000



KEY PLAN
SCALE: N.T.S.

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

$$D = 17 \times \left(0.1 \times W_p \times \frac{HC_f}{HC_{TNT}} \right)^{1/3} = 246m$$

PROPERTY LINE SETBACKS FOR PROPANE TANK

NORTH	109.2m
SOUTH	84.5m
EAST	110.3m
WEST	3.2m

GPS COORDINATES

LATITUDE	LONGITUDE
49°47'14.09"N	92°49'46.59"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 DRYDEN
30 VAN HORNE AVENUE
DRYDEN, ON.
P8N 2A7

ATTN: MR. BOB CUNNINGHAM
PH#: 807.223.1140
FAX#: 807.223.6141
EMAIL: bcunningham@dryden.ca

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No.	Date	Description	By

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Project:	Drawn By: D.F.
CANADIAN TIRE ASSOCIATE STORE #188 409 GOVERNMENT STREET DRYDEN, ON P8N 2P4	Checked By: J.R.K. Date: MAY 25, '16

Drawing Title:	Drawing Scale: 1:1000
BLAST RADIUS LAYOUT FOR 1,999 USWG VERTICAL PROPANE TANK c/w RETAIL CYLINDER SCALE	ACAD INFORMATION
Drawing Number:	Drawing File: 161000-P-200
P-200	Drawing Size: D
File Number:	Plotting Scale: 1=1
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