



Site Plans

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Hazardous Industries

20 and 23 November 2023

WORKSAFE

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Agenda



- Responsibility
- Health and safety control
- Regulations
- Performance standard (location certification)
- Specific provisions, with examples
- Non-compliant site plan
- Plans for stationary tanks
- Questions

Who's Responsible?



- PCBU with management or control
 - ❖ Responsible for having a site plan available for inspection
- Compliance certifier
 - ❖ Responsible for verifying a plan
- These roles are distinct and should not be confused

A Health and Safety Control



- Prescribed requirement of the HS Regulations
- There to:
 - ❖ Protect the health and safety of workers on site
 - ❖ Protect the health and safety of other people who may come on site
 - ❖ Assist emergency services in an incident
 - ❖ Assist compliance certifiers with site assessments
- A site plan is important, it carries substance (i.e. it is not required for frivolous reasons) and should be treated accordingly

Quality of Site Plans



... and need not necessarily be prepared by a person with qualifications in the preparation of plans [r. 3.3]

- CAD drawings are not prescribed
- The site plan to contain elements required by the regulations
 - ❖ Accurate and drawn to scale
 - ❖ Identify actual distances and other relevant dimensions
- Certifiers must:
 - ❖ Be dispassionate and objective
 - ❖ Verify requirements with regulations and performance standard

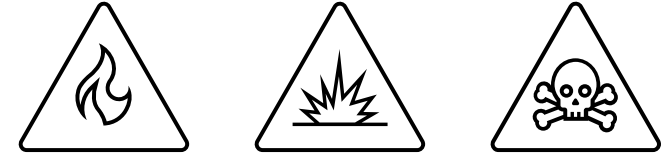
Legislative Requirements



The HS Regulations require a site plan to meet the following requirements:

- Regulation [3\(3\)](#)
 - ❖ Be accurate
 - ❖ All relevant elements are drawn to scale
- Regulations [9.22](#)/[10.26](#)/[12.8](#)/[12.34](#)/[13.34](#)
 - ❖ Show legal boundaries of property
 - ❖ Include site details
 - ❖ Identify all Hazardous Substance Locations (HSL)
 - ❖ Identify all Hazardous Areas / Controlled Zones
 - ❖ Distances from HSL to public/protected places

Performance Standard



- In addition to the regulatory requirements, when certifying a site, the compliance certifier must verify the following are captured on site plans:
 - ❖ North point accurately orientated
 - ❖ Legend or key that defines colours, shaded areas, symbols, abbreviations etc (where relevant)
 - ❖ Elevation drawings (where relevant)

- More than one site plan may be provided (e.g. a separate plan for the legal boundary)

Summary



- The regulations and performance standard set the requirement for site plans, what must be included and what must be verified by the compliance certifier
- The requirements for content and verification do not change on the basis of the size or complexity of the site

Site Plan Assessment



Requirement [Note 1]	Meets (Y/N)	Observation
PCBU name		
Site address		
A north point accurately orientated		
Dimensions in relation to the legal boundary [Note 2]		
A scale		
A legend or key that defines colours, shaded areas, symbols, abbreviations etc		
All hazardous substance locations (HSLs) within the workplace		
Separation distances to protected/public places [Note 3]		
Hazardous areas [Note 4]		
Controlled zone distances [Note 5]		
Separation from other HSLs [class 5.2 substances in manufacture or use] [Note 6]		

Legal Boundary



- Legal boundary of the site with the HSL to be shown on site plan
- The physical position of the HSL in relation to the legal boundary to be shown
- For particularly large sites (e.g. farms, national parks), it may not be necessary to show the legal boundary of the entire site. That part of the boundary closest to the HSL may be sufficient.
- Legal boundary of the entire site is preferred (aerial pictures help)

Scale



- A scale must be included – *accurate and drawn to scale* [r. 3(3)]
- The scale must be meaningful – *enabling a person inspecting the plan to identify actual distances and other relevant dimensions*
- Without a scale, a site plan would not be considered compliant, even if it included key dimensions or measured distances of key features

All Hazardous Substance Locations



- All HSLs must be included on the site plan
- This includes HSLs that the compliance certifier may not be assessing and certifying
- If a HSL arises from a stationary tank, then the stationary tank must be shown on the plan
- However, the requirements of r. 17.80(1) do not need to be verified by the certifier, other than for:
 - ❖ LPG, propane, butane and isobutane,where r. 17.80 applies by virtue of 10.34(1)(k)(iii), hence the requirements of r. 17.80(1)(a) to (h) must be shown on the site plan

Separation Distances



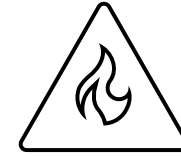
- The extent of the prescribed separation must be shown to:
 - ❖ Protected places
 - ❖ Public places
- This can be achieved by showing a “perimeter” or “radius line” around the HSL
- Without such a line, a site plan would not be considered compliant, even if it stated the actual separation distances

Hazardous Areas



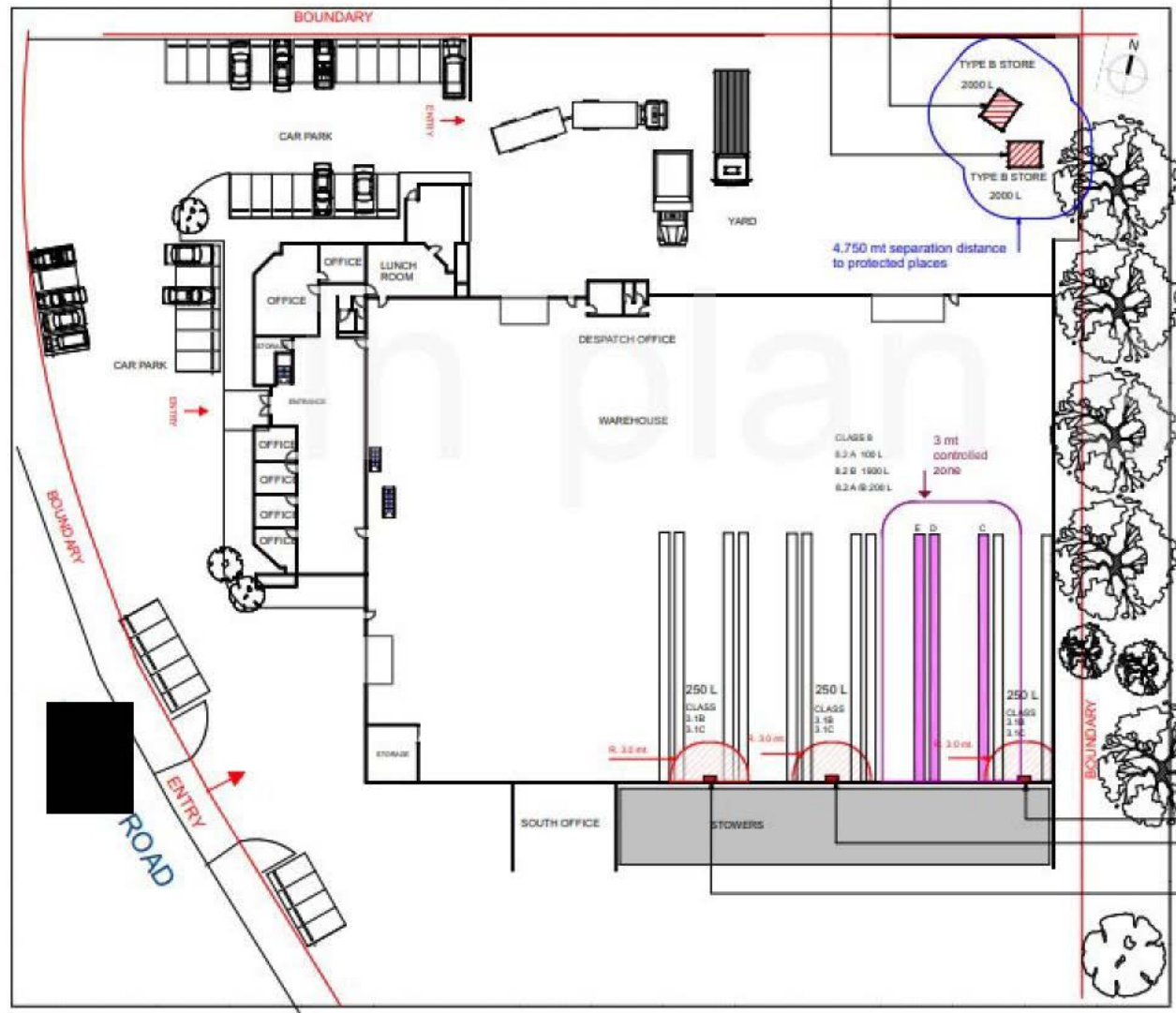
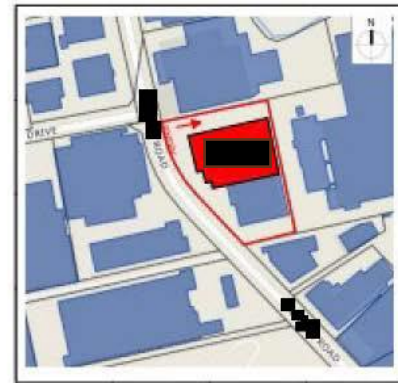
- The extent of the hazardous area must be shown on a site plan, for example as cross-hatched (zone 1) or hatched areas (zone 2)
- It is not sufficient to only state the actual distances or dimensions of the hazardous area
- The hazardous area needs only be shown on a horizontal plane (i.e. 2-dimensionally)
- Three-dimensional information, often seen as pictures from AS/NZS 60079 is informative and should not be discouraged
- However, 3-dimensionality is not a verifiable requirement of the performance standard

Controlled Zones



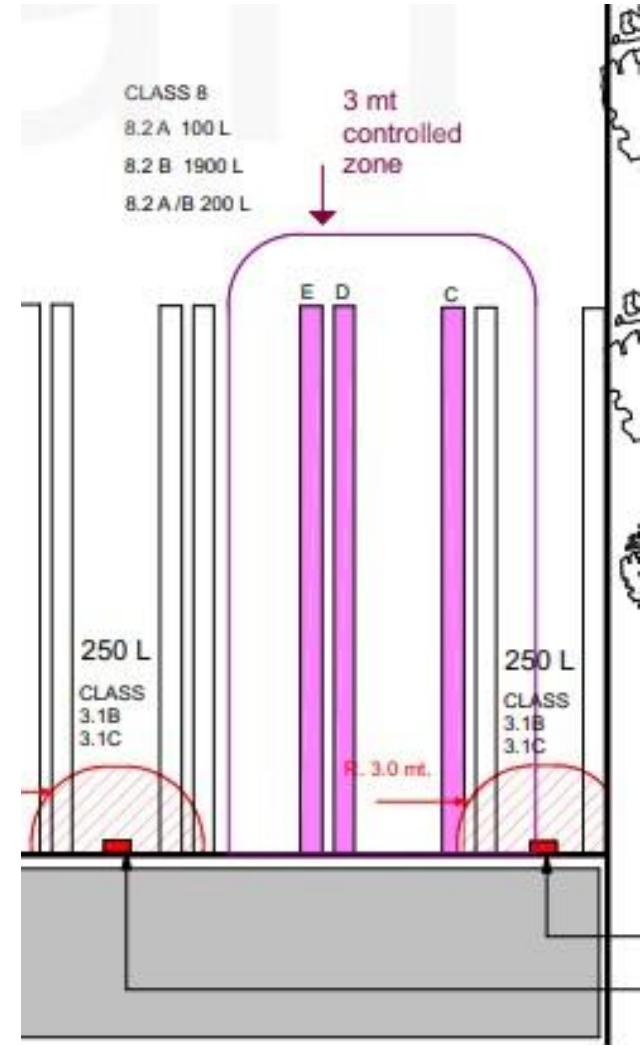
- A requirement of class 1 (r. 9.22), classes 3.2 and 4 (r. 10.26) and class 5 (r. 12.8 and 12.34) substances
- The physical position and extent of the controlled zone must be shown
- This can be achieved by showing a “perimeter” or “radius line” around the HSL
- Without such a line, a site plan would not be considered compliant, even if it stated the actual extent of the zone

PACKAGED STORAGE – PACKAGES REMAIN CLOSED - INADEQUATE VENTILATION
 As per AS/NZS 60079.10.1:2009 Section ZA.5.2.3(b)(ii)
 Where packages, of volumes greater than minor storage defined by AS 1940, remain closed –
Zone two: Extent of inadequately ventilated space, e.g. interior of structure and within space from ground level to 1m above



- AS1940 STORAGE CABINET
 As per AS/NZS60079.10.1: 2009 Section ZA.5.2.3 (C) For storage cabinets as defined by AS1940, irrespective of the ventilation of the storage area
Zone One: - Full interior of the cabinet
Zone Two: - The exterior of the cabinet together with any vent provided on the cabinet, from ground level to one meter above and three meters laterally.

SITE PLAN SCALE 1:400 @A3





Legend	
	Property boundary
	Separation distance to protected place
	Hazardous area zone 1
	Hazardous area zone 2
	Access/Egress

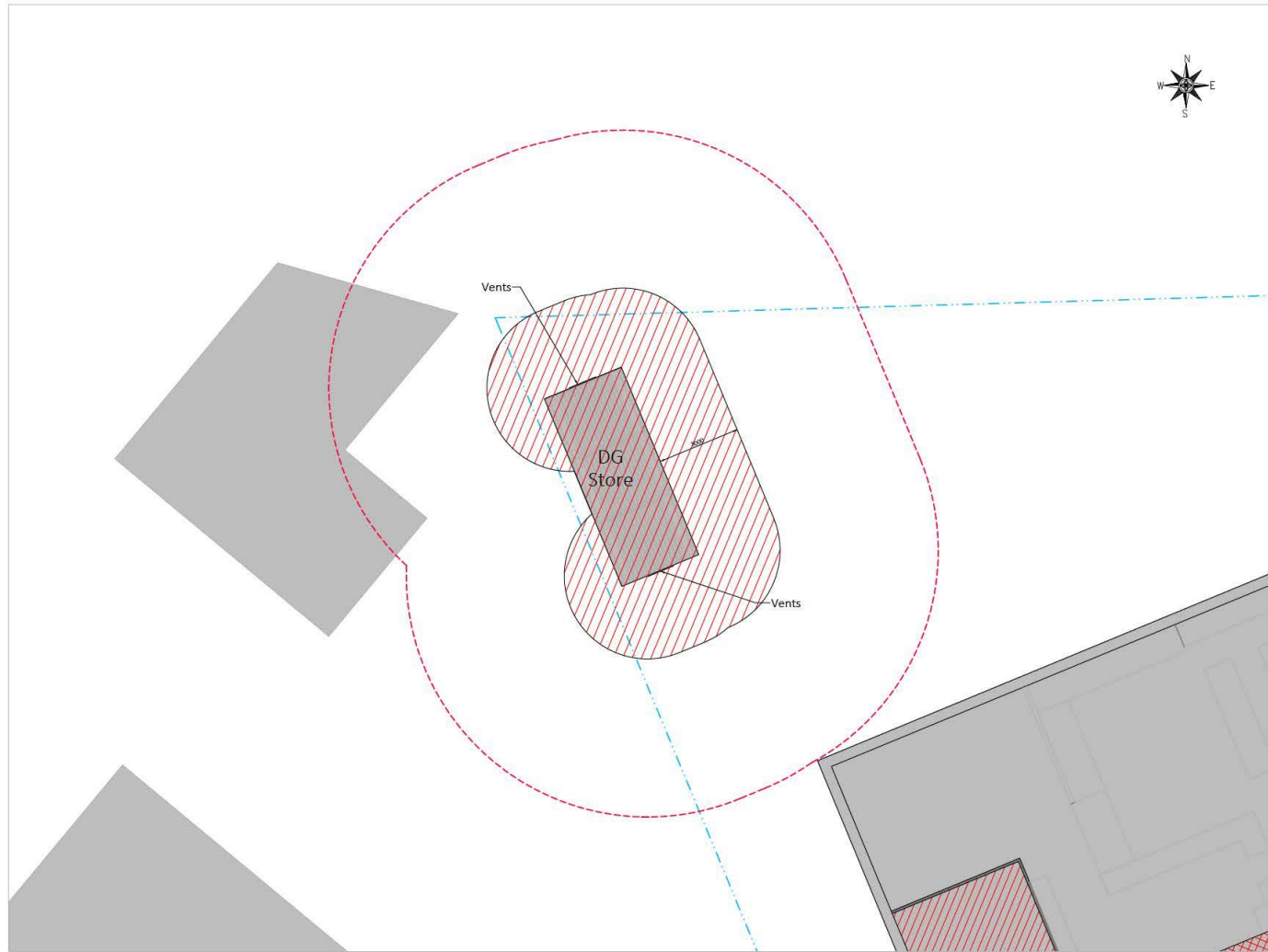


Plan View - Distance to closest boundary, Access/egress
 Drawing Number: 2689989 Rev1



Drawn date:
10/05/2023

Scale:
1:700 in A3



Legend

- Property boundary
- Separation distance to protected place
- Hazardous area zone 1
- Hazardous area zone 2
- Access/Egress

	DG Storage(containers): Plan Enlargement - Separation distances				Drawn date: 10/05/2023	Scale: 1 to 75 in A3
	Drawing Number: 2689989 Rev1					



Site Boundary

Boundary, showing location and Neighbours



Area 1 – Storage type D – Chemical Storage – 20,000L Flammable Liquids Category 2,3 & 4 (3.1B-D)

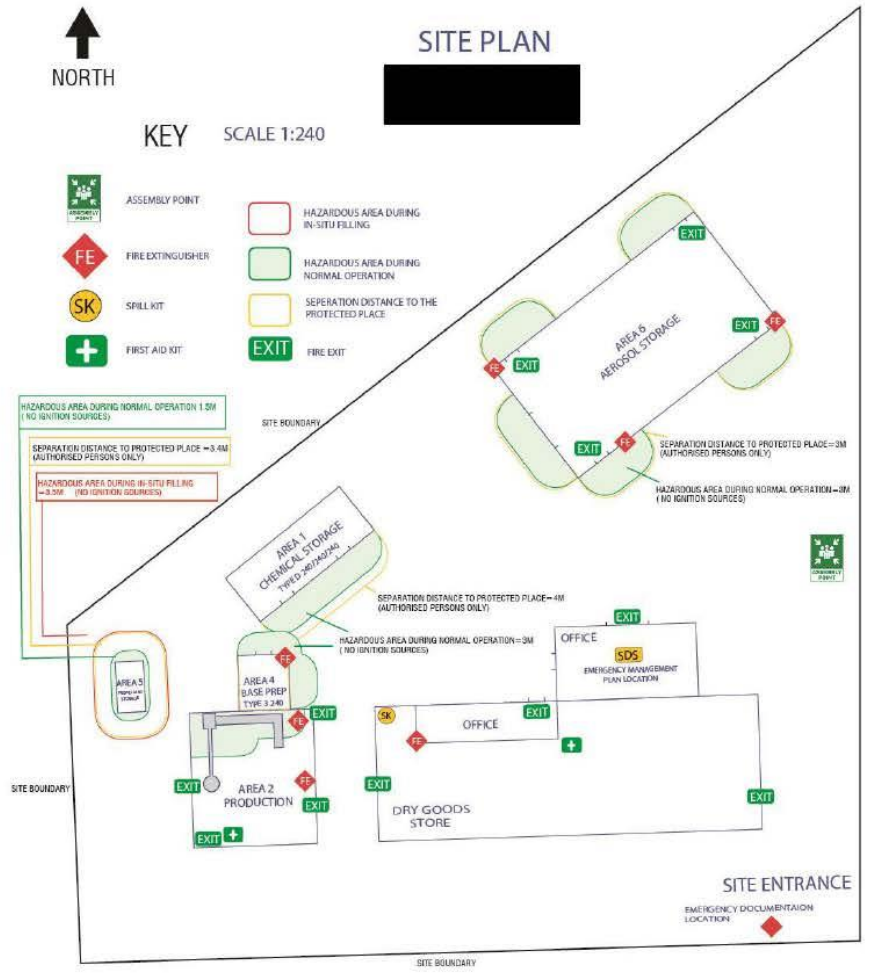
Area 4 – workroom type 3 – Base preparation – 2,500L Flammable Liquids Category 2 (3.1B)

Area 5 – Propellant storage – 2,220Kgs LPG in 222KG in-situ fill Cylinders – Flammable Gas Category 1A (2.1.1A)

Area 6 – Aerosol storage – 90,000L Aerosol Category 1, 2 & 3 (2.1.2A)

SITE PLAN

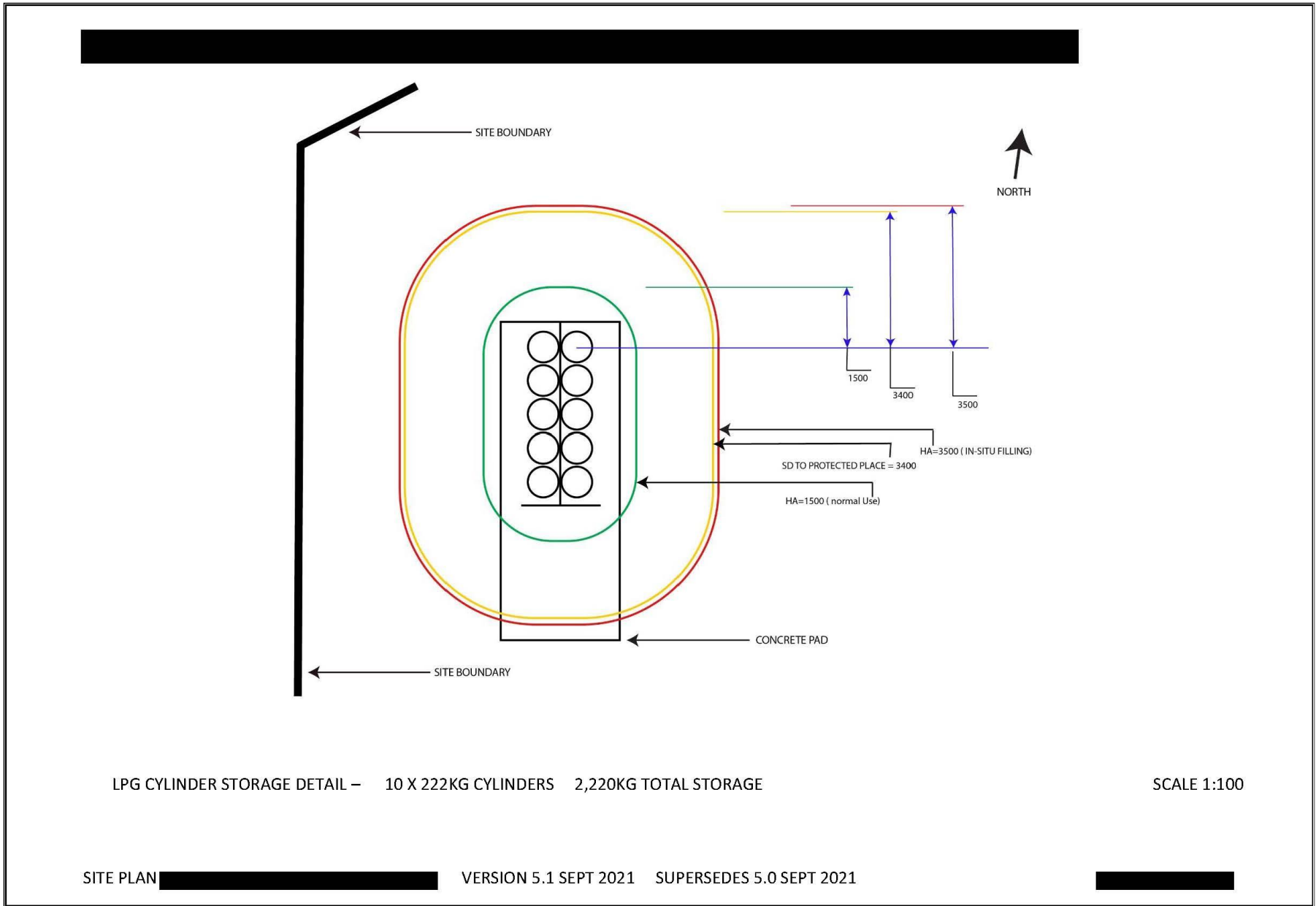
VERSION 5.1 SEPT 2021 SUPERSEDES 5.0 SEPT 2021

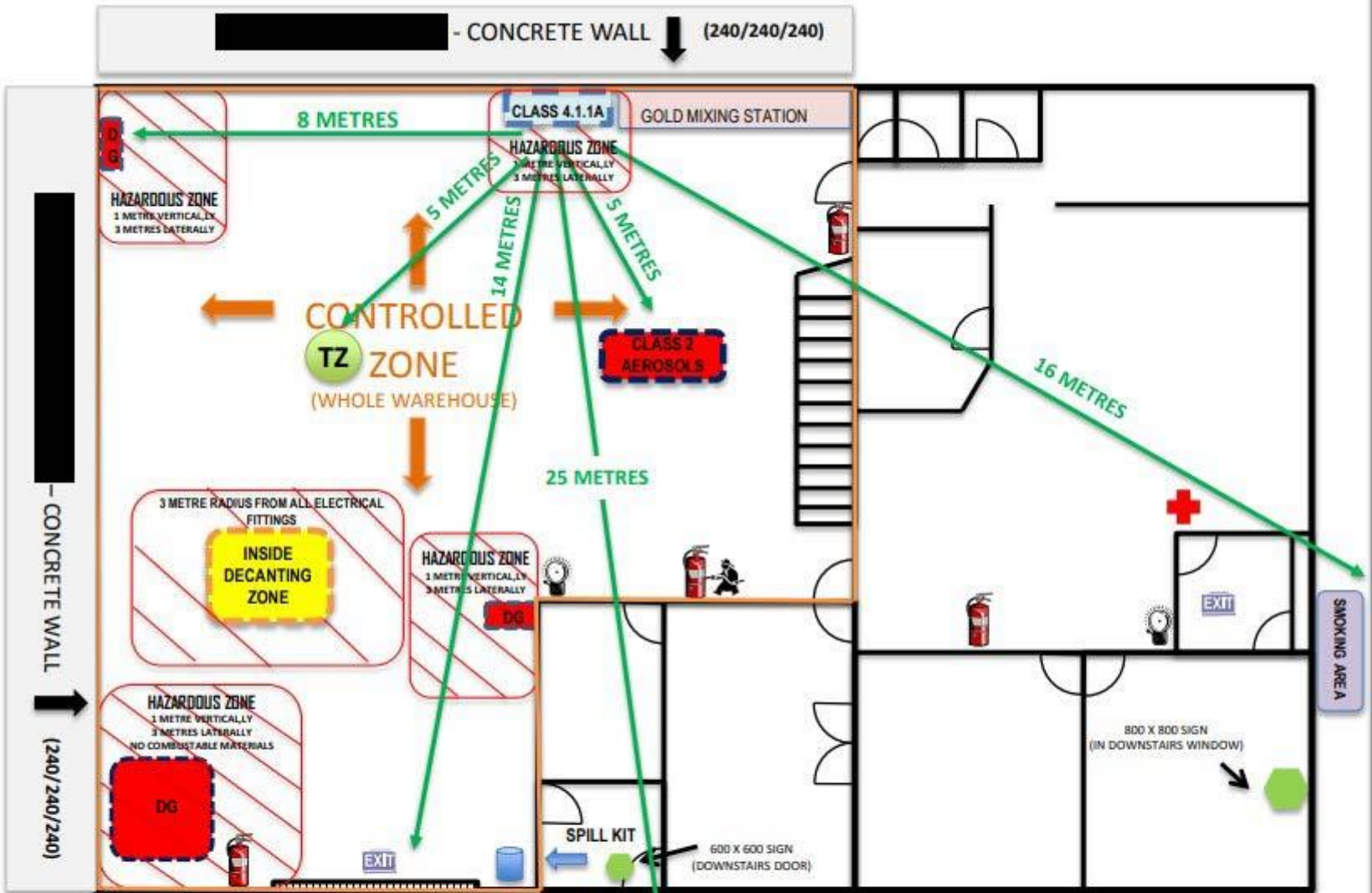


SITE PLAN

VERSION 5.1 SEPT 2021 SUPERSEDES 5.0 SEPT 2021







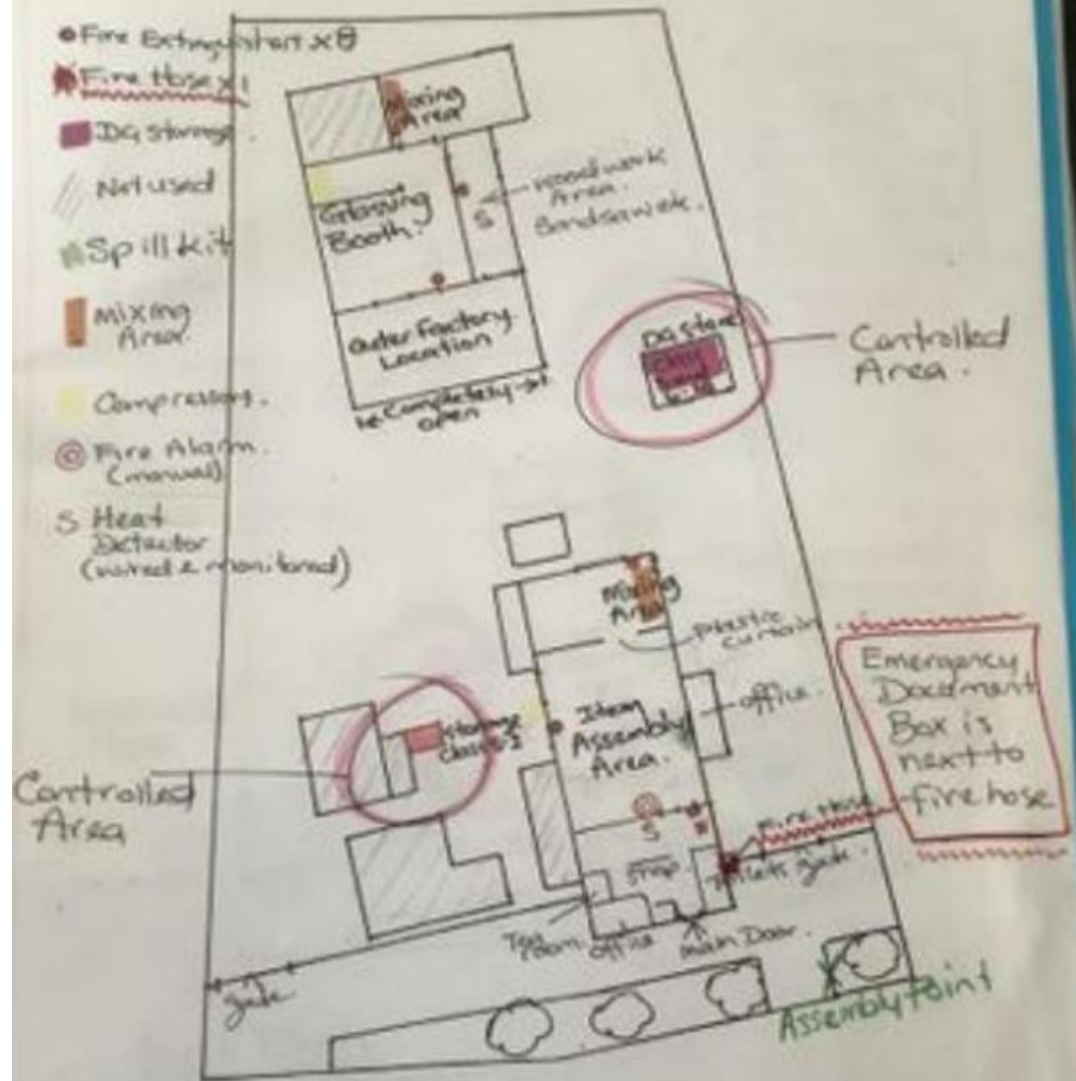
LEGEND

	FIRE EXTINGUISHER		FIRST AID
	FIRE HOSE		EXIT
	ALARM		EXIT SIGN
	DECANTING AREA		HAZARDOUS ZONE TRANSIT ZONE
	HAZARDOUS ZONE 1M VERTICAL 3M LATERAL		

3 METRE RADIUS FROM WALL AND 3 METRE RADIUS FROM ROLLER DOOR

OUTSIDE DECANTING ZONE

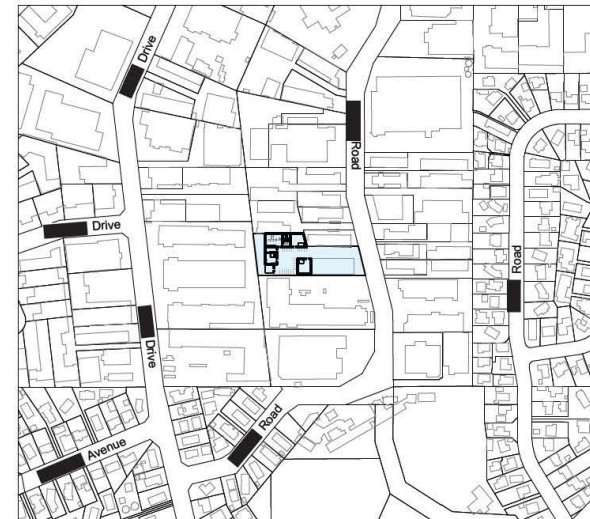
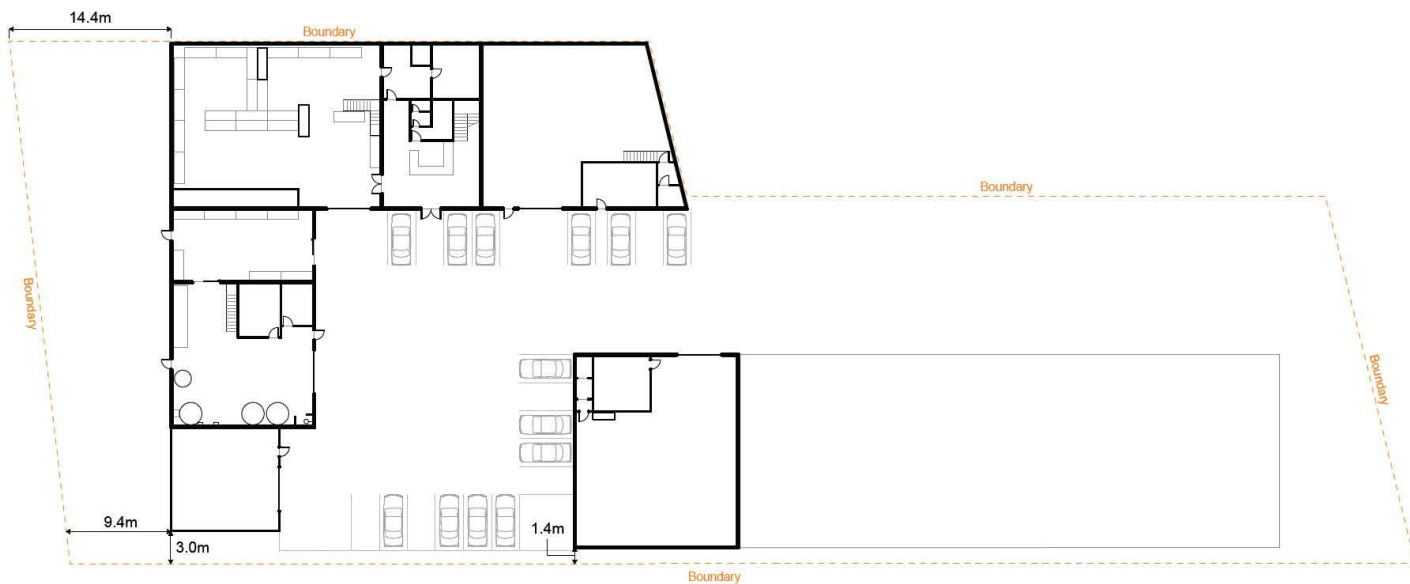
CARPARK NOT IN USE WHILST DECANTING IN PROGRESS



Site Plan.

Hazardous Atmosphere Zone Drawing

No Electrical Equipment to be within these Hazardous Zones.

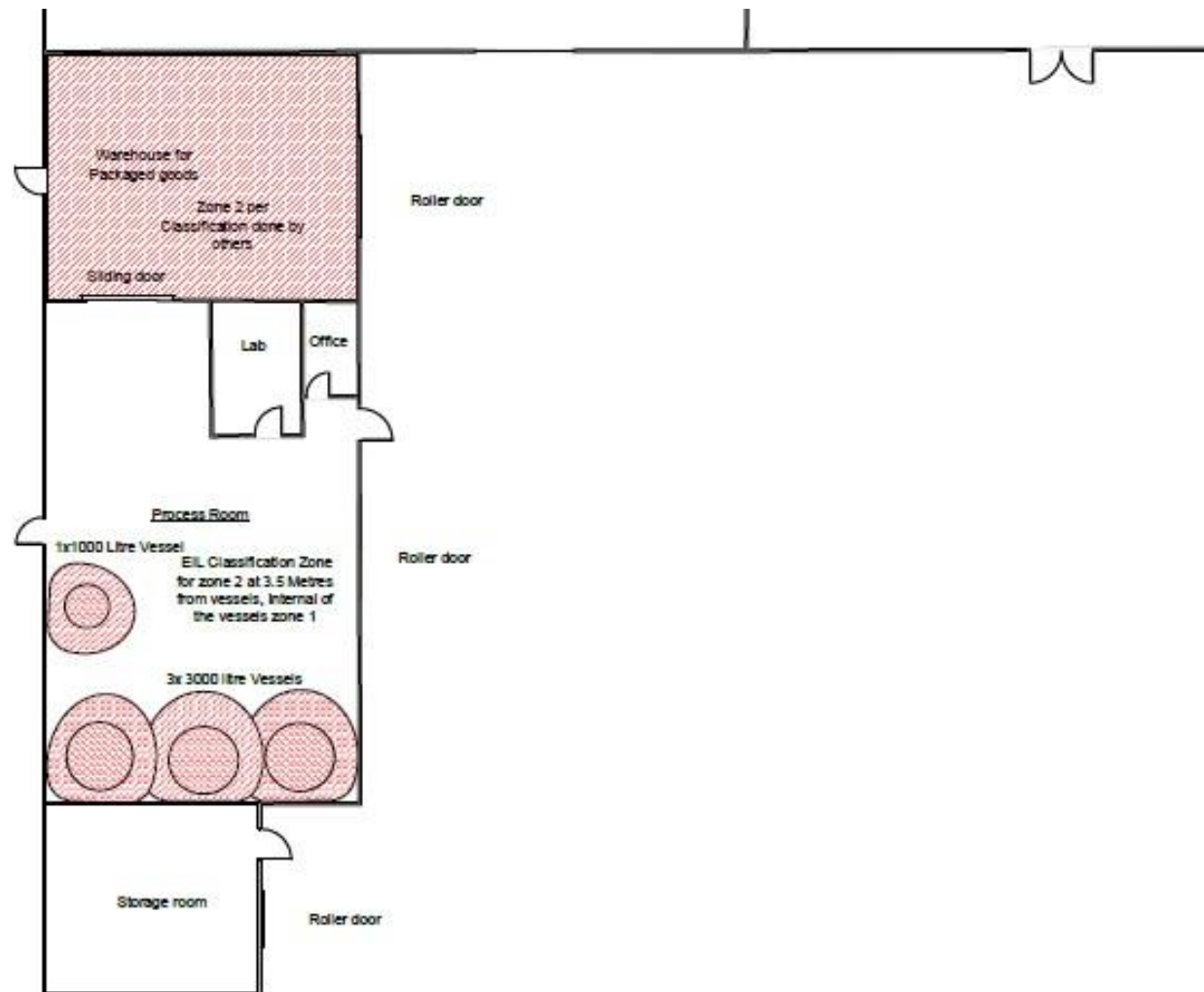


Date: 13/07/2021
Version No: 001
Drawn: DB
Checked: PC
Scale: 1:400 @ A3 paper

Drawing Title:
Location and Boundary Site Plan

- Legends:
- Fire Extinguisher 
 - Spill Kit 
 - Zone Area One 
 - Zone Area two 
 - Separation to Protected Place 
 - Separation to Public Place 

General Notes:
This document has been prepared in accordance with the AS/NZS 2430 and AS/NZS60079.10.1 2009 Standards. All information has been based on the information gathered at the time of your site inspection. This zone plan addresses flammable vapours and flammable liquids in areas where the production, processing, handling, storage and transferring take place. Please note: this plan should be used as a guide only - please refer to the relevant AS/NZS2430 / AS/NZS 60079 standards for actual zoning.



KEY to Electrical Hazardous Area Zones:-



Notes:

1. Correct Signage must be in place for Filling locations and All Storage Tank Area as per HSN0 regulations. "No Smoking or Naked Flames with in 8 meters " or similar.
2. No Electrical equipment to be altered or installed in any area zoned Hazardous with out company approval.
3. Classification based on the principles of AS/NZS 60079.10.1:2009 Explosive atmospheres - Classification of areas - Explosive gas atmospheres
4. This drawing forms part of the facility Dossier.
5. This drawing is not to scale/Schematic drawing only-please refer to attached report for stated distances For actual distances as per standard AS/NZS 60079.10.1
6. Distances contained within the report are, Zone 2 3.5 metres horizontally from the vessel, 1.5 metres vertically above the vessel
7. Zone 1 is internal the vessel.



600 litre above ground petrol tank

Separation distance to Protected Places = 2 metres

Hazardous area around the petrol tank = 4 metres.

Table ZA.5.2.1.2

Capacity of tank kL	Lateral distance m
2	4
4	5
7	6
10	7
25	8
50	9
200	12
≥500	15

NOTE - The distances specified may be interpolated for capacities between the figures shown.

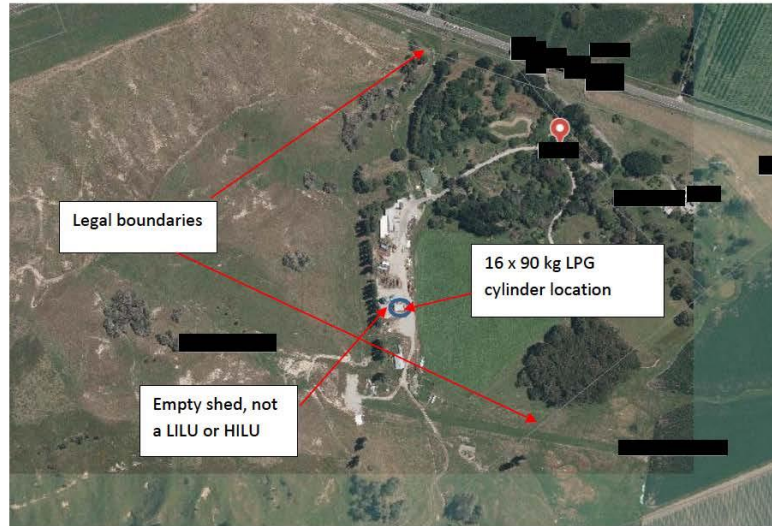
ABOVE GROUND PETROL / DIESEL TANKS

PETROL 600 Litres

Tank Volume water capacity	HILU	LILU		
600	2000	0	0	0
1,000	2000	0	2000	0

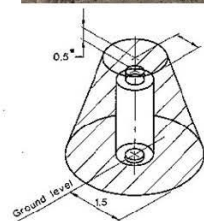
Table 30(4)

HSNO site plan for LPG



Hazardous zone is an area where there may be flammable vapours present and no sources of ignition are permitted within this area. Hazardous area = 1.5 metres

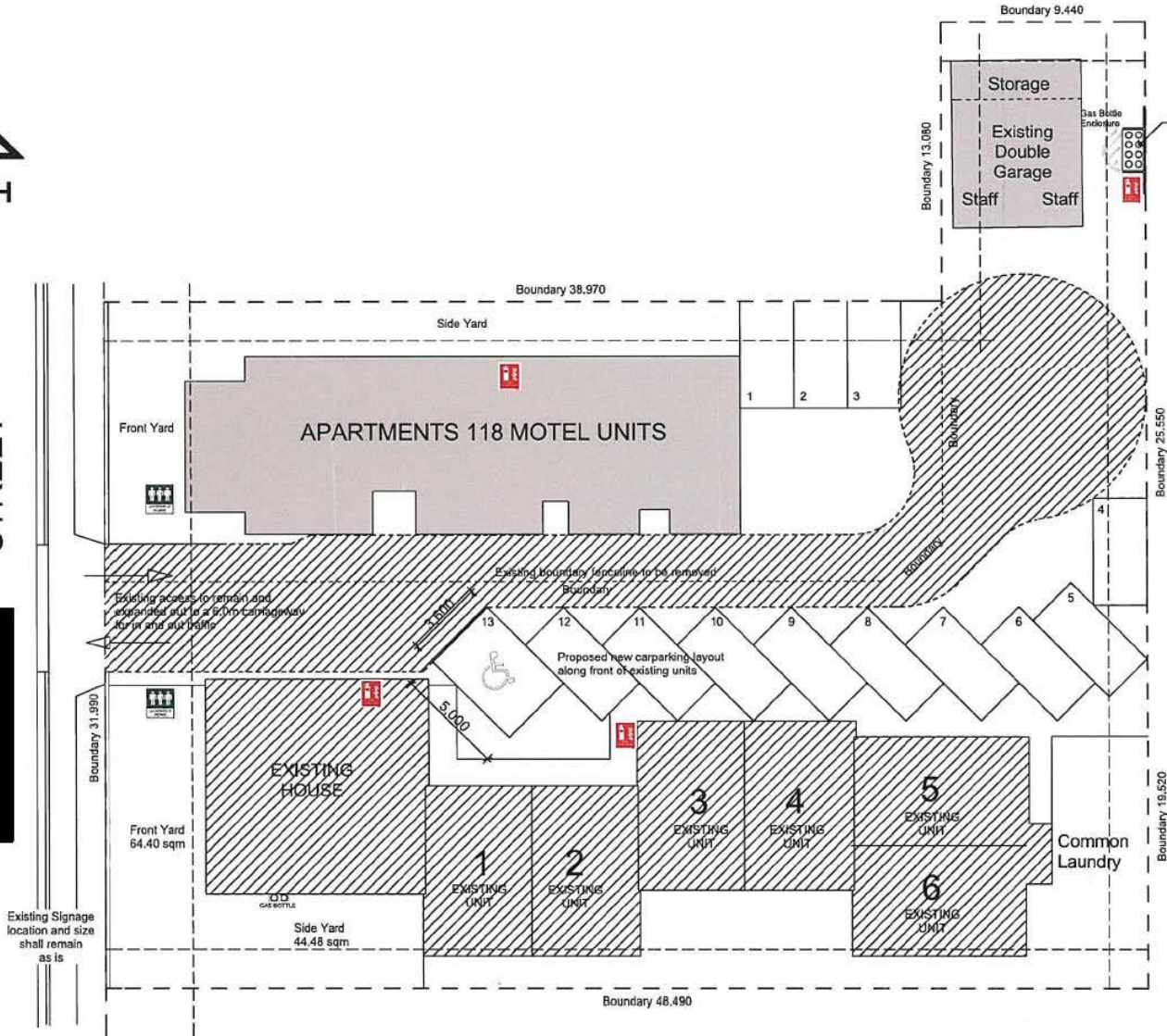
Separation distance required from Protected Places = 2.7 metres – this is very comfortably achieved.



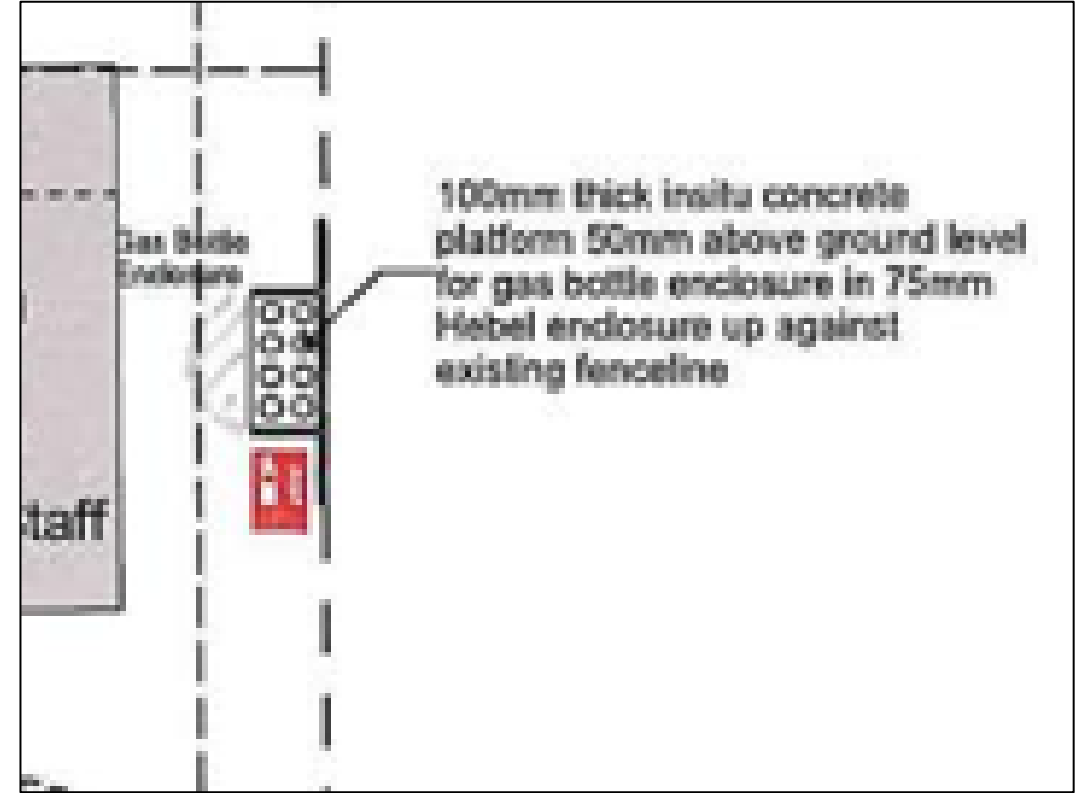
LPG BOTTLES		
kg LPG Bottle	Quantity	
9		
15		
18		Either ente
20		
27		
45		
190		
6 Pallet Truck		
8 Pallet Truck		
Other Quantity	1,440	
Aggregate quantity of LPG stored (kg)		1,440
Protected Place	2627 mm	(Health anc
Public Place	2000 mm	
HAZ Zone 1	0 mm	(AS/NZS 6)
HAZ Zone 2	1500 mm	
HILU	2627	(HSNO Tra
LILU	2000	



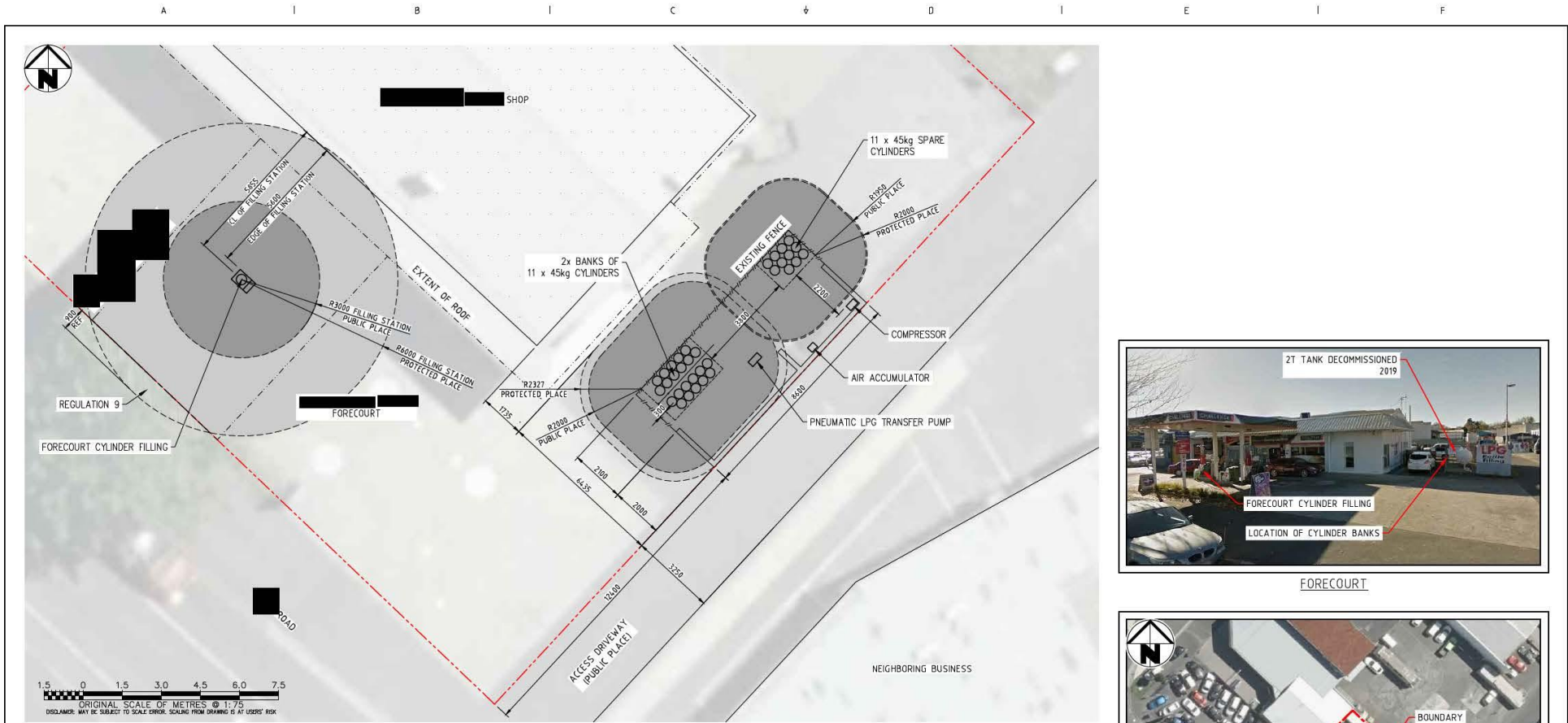
STREET



100mm thick insitu concrete platform 50mm above ground level for gas bottle enclosure in 75mm Hebel enclosure up against existing fence line



1. Ground Floor
Scale 1:200



LEGEND :

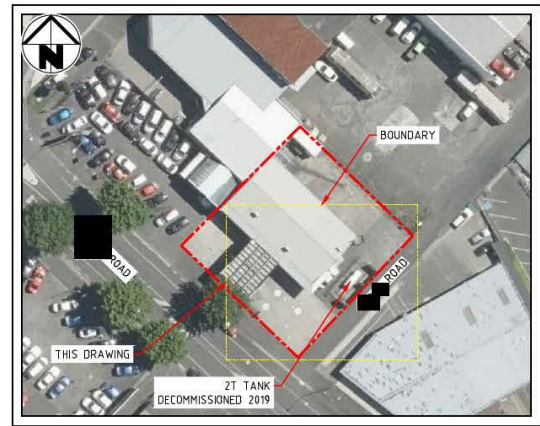
- PROTECTED PLACE
- PUBLIC PLACE
- PROPERTY BOUNDARY (AERIAL VIEW)
- FENCE LINES

THIS CONTROLLED ZONES PLAN IS IN ACCORDANCE WITH HEALTH & SAFETY AT WORK (HAZARDOUS SUBSTANCES) REGULATIONS 2017.

AREA	DESCRIPTION	SEPARATION DISTANCES		HEALTH AND SAFETY AT WORK. (HAZARDOUS SUBSTANCES REGULATIONS)	ALTERNATIVE REFERENCE
		PROTECTED PLACE	PUBLIC PLACE		
LPG CYLINDER STORAGE	22 X 45kg LPG CYLINDERS IN 2 BANKS OF 13 TOTAL 990kg 11 X 45kg SPARE LPG CYLINDERS TOTAL 495kg	2.237m	2.00m	11.20 SEPARATION DISTANCES FOR LPG CYLINDERS TABLE 2 SCHEDULE 12. 11.20.5 PROTECTED PLACE SEPARATION DISTANCE DOES NOT APPLY UP TO 1000KG IF THERE ARE NO BUILDINGS WITHIN 2M OF THE CYLINDERS OR WITH VAPOUR TIGHT 60/60/60 FRR INTERVENING WALL BEHIND AND EXTENDING AT LEAST 2M FROM THE END OF CYLINDER BANK.	
LPG BOTTLE FILL	LPG CYLINDER FILLING WITH +100KG IN CYLINDERS AT THE FILLING STATION	6.0m	3.0m	11.22 SEPARATION DISTANCES FOR LPG FILLING STATION INCLUDING +100KG STORED IN CYLINDERS AT FILLING STATION. REGULATION 9. SEPARATION DISTANCE TO PROTECTED PLACE DOES NOT EXTEND ACROSS PUBLIC PLACE BOUNDARY.	



FORECOURT



AERIAL VIEW

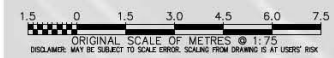
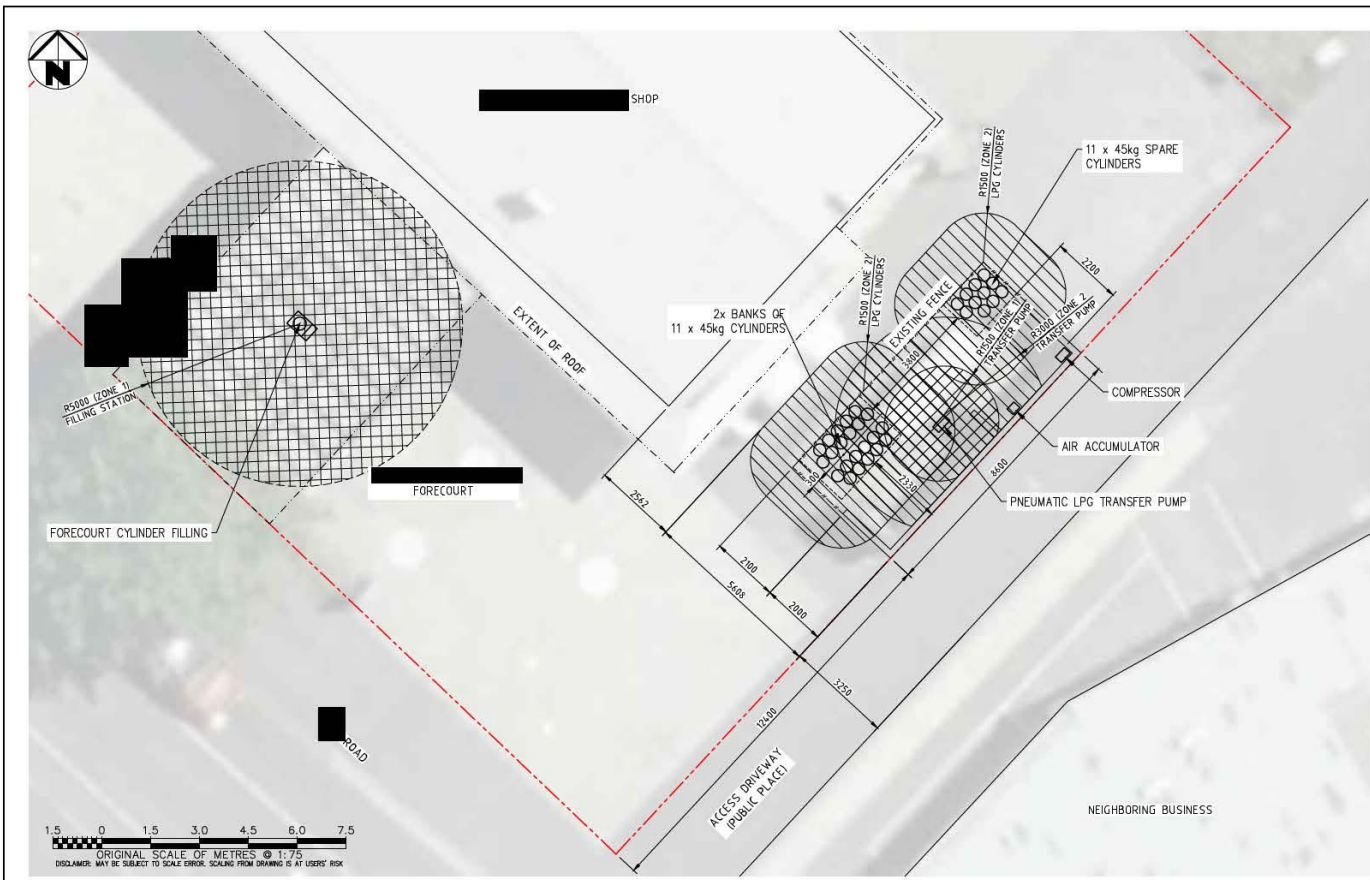
REV	DESCRIPTION	BY	CHK	ENG	APP	DATE
3	ISSUED FOR CERTIFICATION	TWH	ND	ND	RC	11/2020
3-C	11 x 45kg SPARE CYLINDERS ADDED	TWH	MM	ND	RC	07/2020
3-B	ISSUED FOR CONSTRUCTION	TWH	MM	ND	RC	04/2020
3-A	ISSUED FOR REVIEW WITH 2x 13 45kg CYLINDER BANKS	TWH	MM	ND	RC	04/2020
2	ISSUED FOR RE-CERTIFICATION	JEC	RL	ND	RC	11/2019
1	ISSUED FOR CERTIFICATION	RL	JEC	ND	RC	11/2018
	AMENDMENT					

REFERENCE DRAWINGS

APPROVALS	DATE	ENG	APP
DRN TWH	20/11/2020	ENG N DARRAH	30/11/2020
CHK M MURRAY	30/11/2020	APP R CLEAVER	23/12/2020

HAZARDOUS SUBSTANCE REGULATIONS 2017 SEPARATION DISTANCES CYLINDER BANKS

ORIGINAL SIZE	SCALE	SITE NO.	SERIES	DRG. NO.	SHEET	REVISION
A1	1:75	RE-1397	0207	0001	01	3



LEGEND:

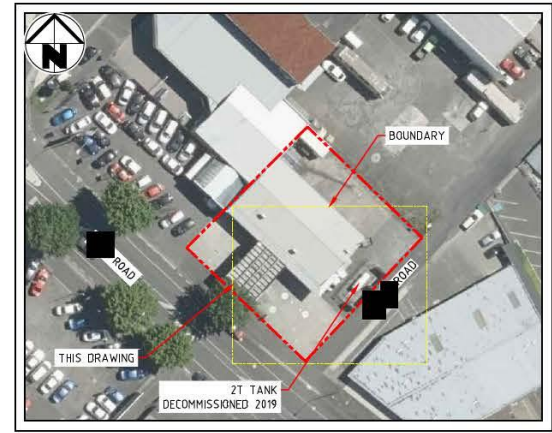
- ZONE 1 HAZARDOUS AREA
- ZONE 2 HAZARDOUS AREA
- PROPERTY BOUNDARY (AERIAL VIEW)
- FENCE LINES

THIS HAZARDOUS AREAS PLAN IS IN ACCORDANCE WITH AS/NZS 60079.10.1 "EXPLOSIVE ATMOSPHERES"

AREA	DESCRIPTION	HAZARDOUS AREA ZONES		AS/NZS 60079.10.1.2009
		ZONE 1	ZONE 2	
LPG CYLINDER STORAGE 2 X MANIFOLDS	22 X 45kg LPG CYLINDERS TOTAL 990kg	-	0.5m ABOVE & 0.5m LATERALLY EXTENDING TO A DISTANCE OF 1.5m LATERALLY AT THE BASE OF THE CYLINDER.	ZA.6.5.2.16 CYLINDER STORAGE, ADEQUATE VENTILATION.
	11 X 45kg LPG CYLINDERS TOTAL 495kg			
PUMP	PUMP 32L/MIN - LESS THAN DR 5L/S	1.5m LATERALLY TO 1.0m ABOVE PUMP.	3.0m LATERALLY TO 1.5m ABOVE PUMP.	ZA.6.5.2.8
FORECOURT	CYLINDER FILLING STATION	0.5m ABOVE AND 2.0m LATERALLY FROM FILLING POINT EXTENDING TO 5.0m LATERALLY AT THE BASE	-	6.5.2.13.b CYLINDER FILLING WITH GAS BLEEDING, ADEQUATELY VENTILATED



FORECOURT



AERIAL VIEW

REV	DESCRIPTION	BY	CHK	ENG	APP	DATE
3	ISSUED FOR CERTIFICATION	TH	ND	ND	RC	11/2020
3-C	11 X 45kg SPARE CYLINDERS ADDED	TH	MM	ND	RC	07/2020
3-B	ISSUED FOR CONSTRUCTION	TH	MM	ND	RC	04/2020
3-A	ISSUED FOR REVIEW WITH 2x 13 45kg CYLINDER BANKS	TH	MM	ND	RC	04/2020
2	ISSUED FOR RE-CERTIFICATION	JCC	RL	ND	RC	11/2019
1	ISSUED FOR CERTIFICATION	RL	JCC	ND	RC	11/2018

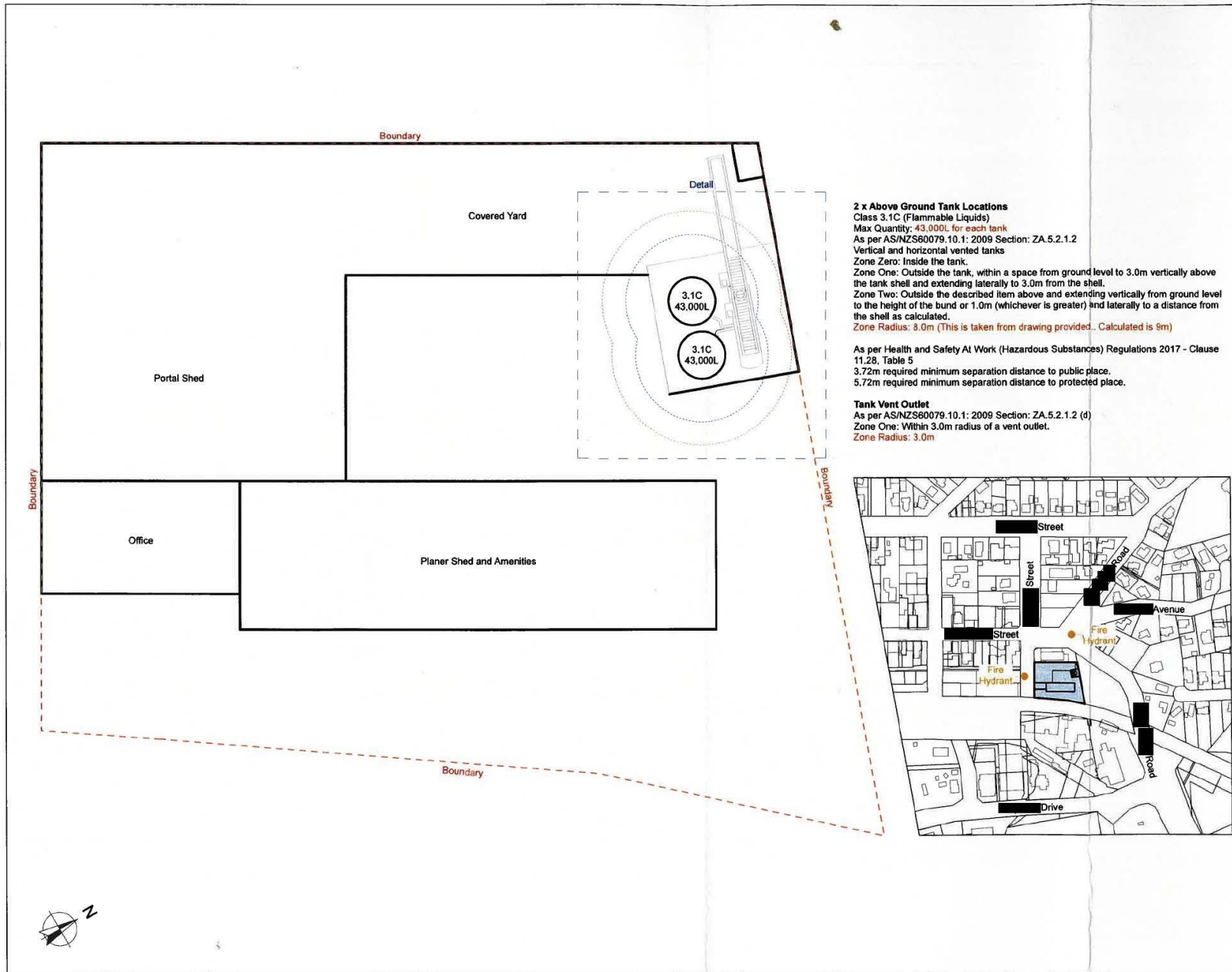
REFERENCE DRAWINGS

APPROVALS

DRN T van Hattum 20/11/2020 ENG N DARRAH 30/11/2020

CHK M MURRAY 30/11/2020 APP R CLEAVER 23/12/2020

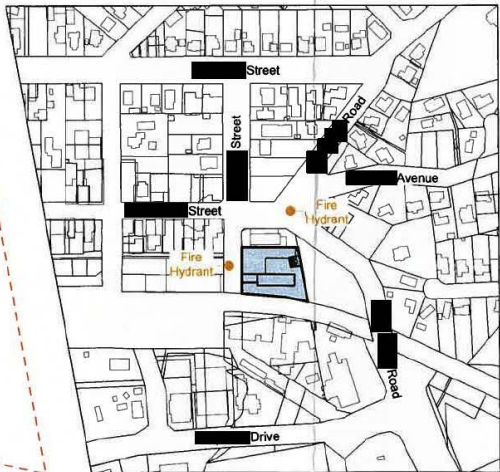
ORIGINAL SIZE	SCALE	SITE NO.	SERIES	DRG. NO	SHEET	REVISION
A1	1:75	RE-1397	0850	0001	01	3



2 x Above Ground Tank Locations
 Class 3.1C (Flammable Liquids)
 Max Quantity: 43,000L for each tank
 As per AS/NZS60079.10.1: 2009 Section: ZA.5.2.1.2
 Vertical and horizontal vented tanks
 Zone Zero: Inside the tank.
 Zone One: Outside the tank, within a space from ground level to 3.0m vertically above the tank shell and extending laterally to 3.0m from the shell.
 Zone Two: Outside the described item above and extending vertically from ground level to the height of the bund or 1.0m (whichever is greater) and laterally to a distance from the shell as calculated.
 Zone Radius: 3.0m (This is taken from drawing provided.. Calculated is 9m)

As per Health and Safety At Work (Hazardous Substances) Regulations 2017 - Clause 11.28, Table 5
 3.72m required minimum separation distance to public place.
 5.72m required minimum separation distance to protected place.

Tank Vent Outlet
 As per AS/NZS60079.10.1: 2009 Section: ZA.5.2.1.2 (d)
 Zone One: Within 3.0m radius of a vent outlet.
 Zone Radius: 3.0m



Date: 10/06/2021

Version No: 001

Drawn: DB

Checked: PC

Scale: 1:300 @ A3 paper

Drawing Title:

Hazardous Atmosphere Zones

- Legends:
- Fire Extinguisher
 - Spill Kit
 - Zone Area One
 - Zone Area two
 - Separation to Protected Place
 - Separation to Public Place

General Notes:
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2 x Above Ground Tank Locations

Class 3.1C (Flammable Liquids)
Max Quantity: 43,000L for each tank
As per AS/NZS60079.10.1: 2009 Section: ZA.5.2.1.2

Vertical and horizontal vented tanks

Zone Zero: Inside the tank.

Zone One: Outside the tank, within a space from ground level to 3.0m vertically above the tank shell and extending laterally to 3.0m from the shell.

Zone Two: Outside the described item above and extending vertically from ground level to the height of the bund or 1.0m (whichever is greater) and laterally to a distance from the shell as calculated.

Calculated Zone Radius: 8.0m

As per Health and Safety At Work (Hazardous Substances) Regulations 2017 - Clause 11.28, Table 5

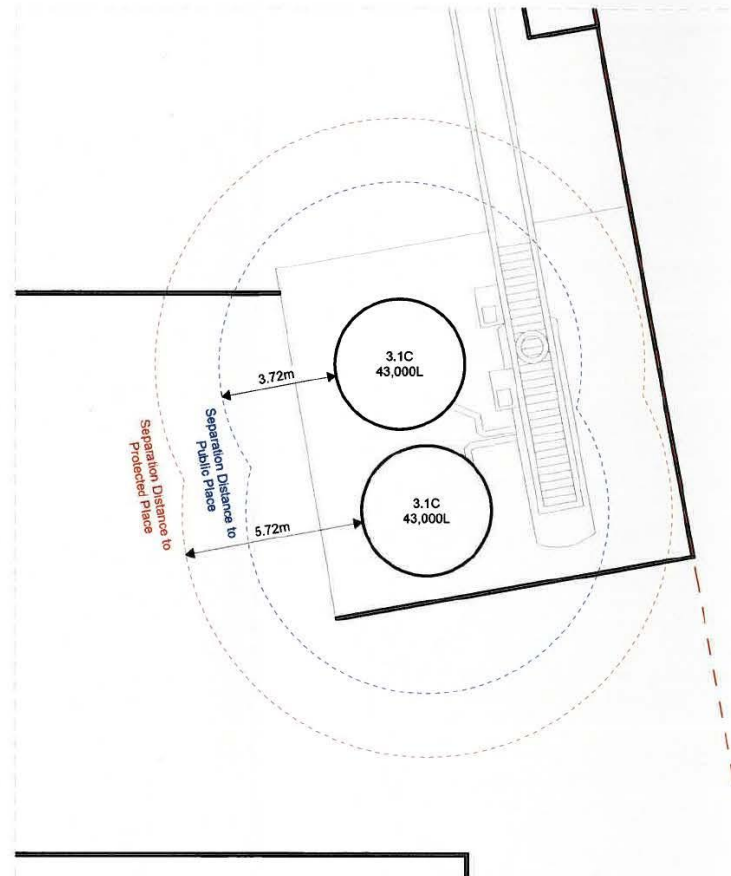
3.72m required minimum separation distance to public place.

5.72m required minimum separation distance to protected place.

Tank Vent Outlet

As per AS/NZS60079.10.1: 2009 Section: ZA.5.2.1.2 (d)

Zone One: Within 3.0m radius of a vent outlet.



Date: 10/06/2021

Version No: 001

Drawn: DB

Checked: PC

Scale: 1:150 @ A3 paper

Drawing Title:

Hazardous Atmosphere Zones

Legends:

Fire Extinguisher



Spill Kit



Zone Area One



Zone Area two



Separation to Protected Place



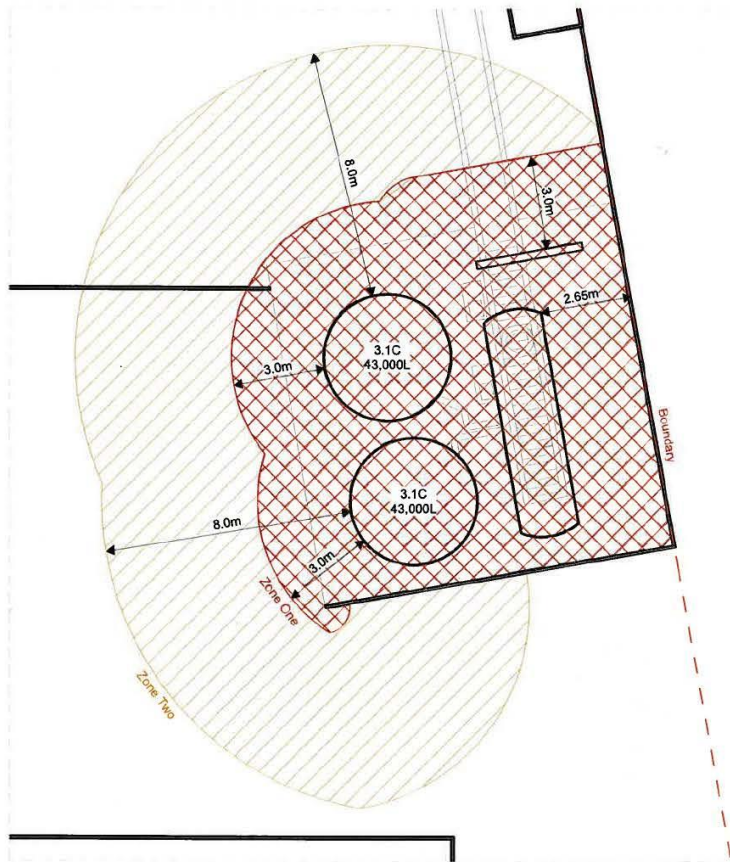
Separation to Public Place



General Notes:

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2 x Above Ground Tank Locations

Class 3.1C (Flammable Liquids)

Max Quantity: 43,000L for each tank

As per AS/NZS60079.10.1: 2009 Section: ZA.5.2.1.2

Vertical and horizontal vented tanks

Zone Zero: Inside the tank.

Zone One: Outside the tank, within a space from ground level to 3.0m vertically above the tank shell and extending laterally to 3.0m from the shell.

Zone Two: Outside the described item above and extending vertically from ground level to the height of the bund or 1.0m (whichever is greater) and laterally to a distance from the shell as calculated.

Calculated Zone Radius: 8.0m

As per Health and Safety At Work (Hazardous Substances) Regulations 2017 - Clause 11.28, Table 5

3.72m required minimum separation distance to public place.

5.72m required minimum separation distance to protected place.

Tank Vent Outlet

As per AS/NZS60079.10.1: 2009 Section: ZA.5.2.1.2 (d)

Zone One: Within 3.0m radius of a vent outlet.

Date: 10/06/2021

Version No: 001

Drawn: DB

Checked: PC

Scale: 1:150 @ A3 paper

Drawing Title:

Hazardous Atmosphere Zones

Legends:


Fire Extinguisher 

Spill Kit 

Zone Area One 

Zone Area two 

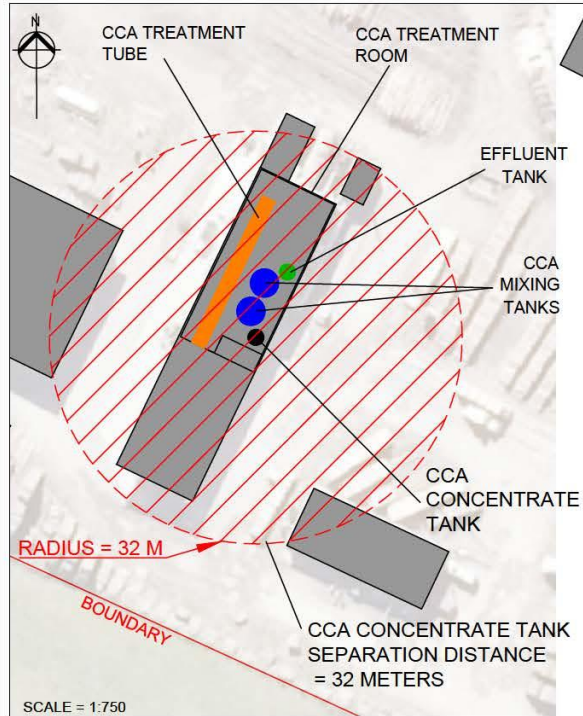
Separation to Protected Place 

Separation to Public Place 

General Notes:

This document has been prepared in accordance with the AS/NZS60079.10.1:2009 Standards. All information has been based on the information gathered at the time of your site inspection. This zone plan addresses flammable vapours and flammable liquids in areas where the production, processing, handling, storage and transferring take place. Please note: this plan should be used as a guide only - please refer to the relevant AS/NZS 60079 standards for actual zoning.





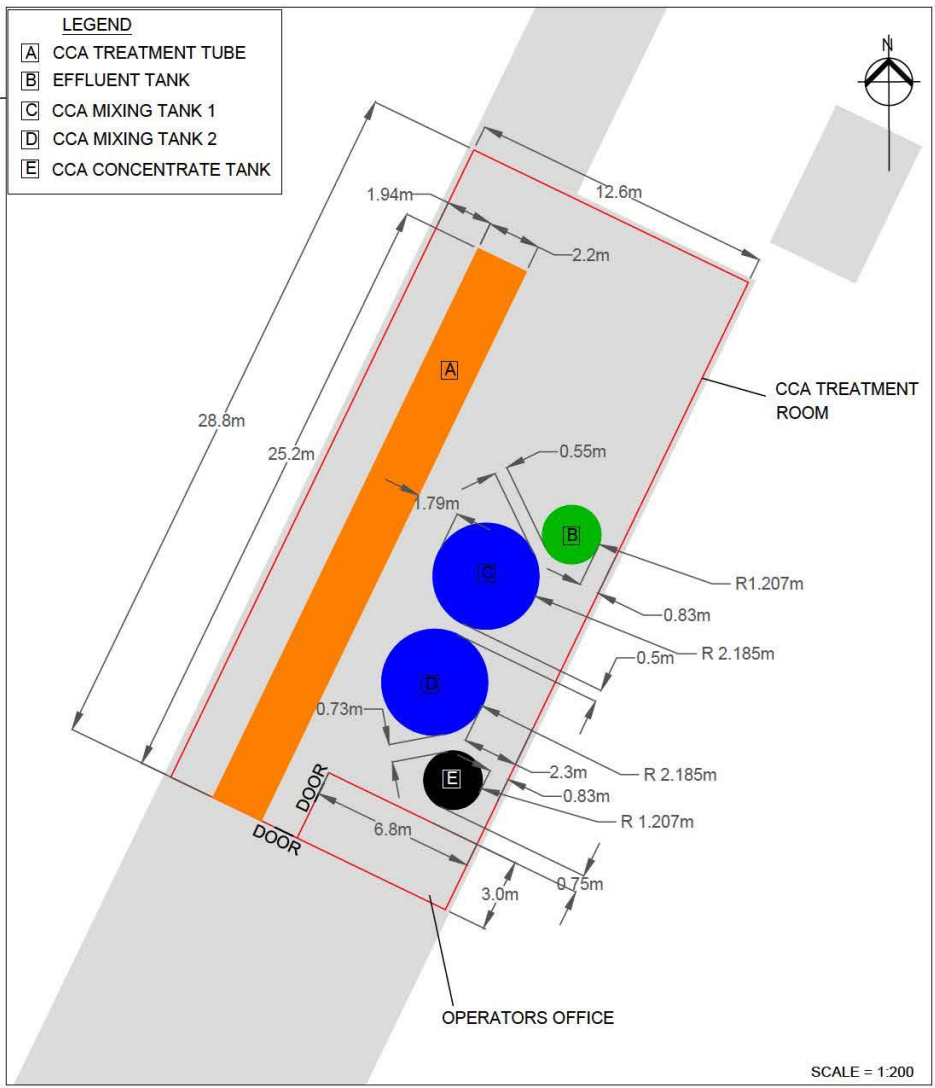
DETAIL "A"
 COPPER CHROME
 ARSENATE (CCA)
 TREATMENT ROOM
 DIMENSIONS

1 02b

DIMENSIONS IN METERS

1 02

DETAIL "A"
 COPPER CHROME
 ARSENATE (CCA)
 CONCENTRATE TANK



Revision notes:		
Rev.	Date:	Notes:
		THIS IS A COLOUR DRAWING
		All information has been based on the information gathered at the time of your site inspection. This zone plan addresses flammable vapours and flammable liquids in areas where the production, processing, storage and transferring take place.

Drawn by:	Project:
█	█
Client:	Drawing Title:
█	█

Date:	Page:
22/12/2021	2
Scale @ A3:	
1:200 OR AS NOTED	
Drawing#: Revision:	
1 1	

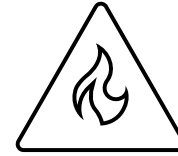


Substances Below HSL Thresholds



- A site plan does not need to show the physical position of hazardous substances that are below the quantity that requires a hazardous substance location to be established

Non-compliant site plans



- Compliance certifier should consider a conditional location certificate in the first instance
- If the PCBU does not address the non-compliances with the site plan, the conditional certificate will expire
- There is no regulatory requirement to notify the expiry of a conditional certificate
- Guidance on conditional location certificates and the notification of refusal to issue a compliance certificate is pending

Requirements for SCSs [r. 17.80]



The HS Regulations require a plan where there is a stationary container system

The plan to describe the physical position of the stationary container system in relation to:

- Legal boundary (if separation distances are within 5 m of that boundary)
- Every building on site
- Every SCS present on site
- Every storage area for packaged hazardous substances
- Every storage area for gas cylinders

SCSs [cont.]



- Every secondary containment systems for every stationary tank that is part of the system
- All fire fighting equipment and facilities, including firewalls and vapour barriers
- Every transfer point for a class 2.1.1 or 3.1 substance

To issue a stationary container system compliance certificate, a certifier must verify that records specified in r. 17.80 (which includes a plan) are available (r. 17.91(2)(k))

Getting you home healthy and safe.
That's what we're working for.

WORKSAFE
Mahi Haumaru Aotearoa