TYPICAL TANK DIMENSIONS		
Tank Size	Length	Diameter
1.0 kL	1.14 m	0.80 m
2.5 kL	2.45 m	1.20 m
3.0 kL	2.75 m	1.20 m
4.3 kL	3.95 m	1.20 m
5.1 kL	4.75 m	1.20 m
6.7 kL	5.94 m	1.20 m
7.5 kL	7.20 m	1.20 m

PLEASE NOTE: TANK DIMENSIONS IN THIS TABLE ARE INDICATIVE ONLY - ENSURE CORRECT DIMENSIONS FOR THE TANK TO BE INSTALLED ARE USED

TYPICAL SEPARATION REQUIREMENTS		
Tank Size	Public Place	Protected Place
1.0 kL	2.00 m	3.00 m
2.5 kL	4.00 m (3.00 m)	6.00 m (4.50 m)
3.0 kL	4.03 m (3.00 m)	6.60 m (4.95 m)
4.3 kL	4.60 m (3.40 m)	7.20 m (4.70 m)
5.1 kL	5.00 m (3.50 m)	8.00 m (5.00 m)
6.7 kL	5.50 m (4.00 m)	9.00 m (6.00 m)
7.5 kL	6.00 m (4.00 m)	10.00 m (6.00 m)

PLEASE NOTE: DISTANCES IN BRACKETS ARE FOR SINGLE TANKS USED FOR VAPOUR ONLY - NO OTHER TANK WITHIN 8M. DISTANCES TO BE TAKEN FROM EDGE OF TANK

TYPICAL SPACE REQUIREMENTS		
Tank Size	DIMENSION A	DIMENSION B
1.0 kL	4.0 m	5.64 m
2.5 kL	4.2 m	6.95 m
3.0 kL	4.2 m	7.25 m
4.3 kL	4.2 m	8.45 m
5.1 kL	4.2 m	9.25 m
6.7 kL	4.2 m	10.44 m
7.5 kL	4.2 m	11.70 m

PLEASE NOTE: SPACE REQUIREMENTS IN THIS TABLE ARE INDICATIVE ONLY - ENSURE CORRECT DIMENSIONS FOR THE TANK TO BE INSTALLED ARE USED

PUBLIC PLACE:

ANY PLACE, OTHER THAN PRIVATE PROPERTY, OPEN TO THE PUBLIC AND INCLUDING A STREET OR ROAD. PUBLIC AREAS FOR COMMERCIAL AND PUBLIC BUILDINGS ARE NOT TREATED AS PUBLIC PLACES.

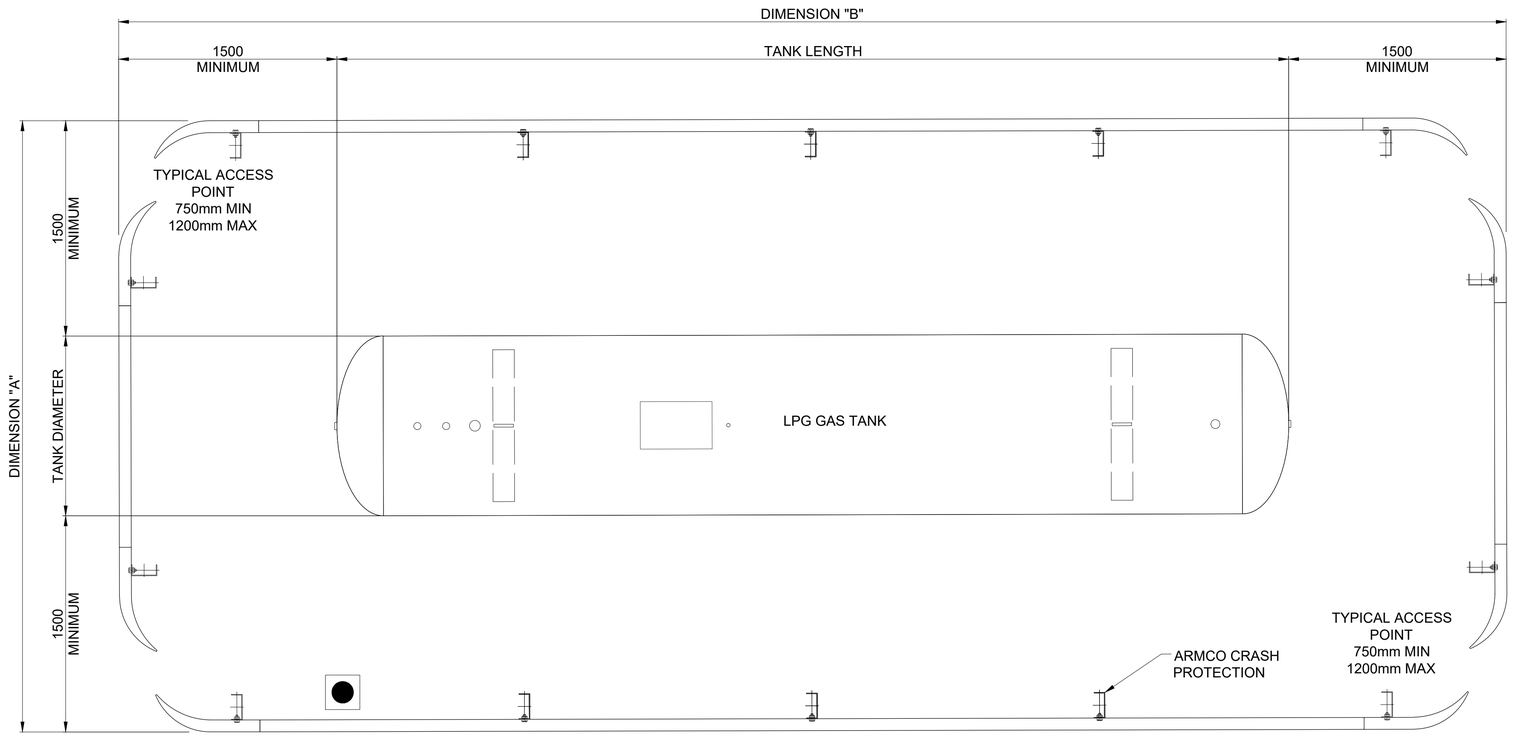
LEGEND (FIRE PROTECTION BY OTHERS AND TO BE CONFIRMED BY ELGAS TECHNICAL TEAM.)

● FIRE EXTINGUISHER (9kg DRY CHEMICAL POWDER ABE)

PROTECTED PLACE:

ANY OF THE FOLLOWING:

1. A DWELLING, PLACE OF WORSHIP, PUBLIC BUILDING, SCHOOL OR COLLEGE, HOSPITAL, THEATRE OR ANY BUILDING OR OPEN AREA IN WHICH PERSONS ARE ACCUSTOMED TO ASSEMBLE IN LARGE NUMBERS, WHETHER WITHIN OR OUTSIDE THE BOUNDARY OF THE INSTALLATION.
2. A FACTORY, OFFICE, WORKSHOP, STORE, WAREHOUSE, SHOP OR BUILDING WHERE PEOPLE ARE EMPLOYED, EXCEPT A BUILDING USED FOR THE STORAGE AND HANDLING OF LP GAS.
3. A VESSEL (BOAT) LYING AT PERMANENT BERTHING FACILITIES
4. ANY STORAGE FACILITY FOR DANGEROUS GOODS OUTSIDE THE PROPERTY BOUNDARY OF THE INSTALLATION, EXCEPT THOSE DEFINED AS MINOR STORAGE IN OTHER STANDARDS OR REGULATIONS



GENERAL ARRANGEMENT - PLAN
SCALE 1:20

SPECIFICATIONS:

TANK FOOTINGS ARE TO BE OF MINIMUM COMPACTED CRUSHED ROCK THAT WILL SUPPORT THE TOTAL MASS OF THE TANK WHEN FILLED WITH WATER.

IMPACT PROTECTION IF A TANK IS ACCESSED BY APPENDIX "Q" OF AS/NZS1596 AND IS SUSCEPTIBLE TO IMPACT IT SHALL BE PROTECTED BY:

- BOLLARDS,
- 'W' GUARD RAILS (ARMCO), OR EQUIVALENT.
- FENCED COMPOUND
- ALL TO BE POSITIONED NO LESS THAN 1500mm FROM EDGE OF ANY TANK.

BOLLARDS IF USED, MUST BE MINIMUM 75mm STEEL PIPE A MAX OF 1.3M APART, FILLED WITH AND SET IN CONCRETE TO A MINIMUM HEIGHT OF 1.2m AND MINIMUM DEPTH OF 500mm.

FENCE COMPOUNDS ARE TO BE 1.8m CHAIN LINK FENCE WITH TENSION WIRES AND 50mm DIAMETER STEEL POLES SET IN CONCRETE WITH GATE OPENING OUT AND TO COMPLY WITH AS/NZS1596.

ADDITIONAL TANKS CAN BE ADDED; PARALLEL TO EACH OTHER WITH ONE TANK DIAMETER SEPARATION BETWEEN EACH ONE.

MANIFOLDS FOR ADDITIONAL TANKS REFER TO DRAWING D-STD-MAN-GEN-001 MANIFOLD DESIGN AND PARTS AND ALSO CONSULT WITH THE ELGAS TECHNICAL DEPARTMENT.

INSTALLATION NOTES:

1. ALL DIMENSIONS IN MILLIMETERS UNLESS OTHERWISE NOTED.
2. INSTALLATION TO CONFORM TO AS/NZS 1596, AS3000
3. ARMCO BARRIERS USE OF FISHTAIL ENDS NOT TO BE USED ON ANY PUBLIC STATE AUTHORITY ROADS AND SHALL BE 1500mm FROM VESSEL UNLESS OTHERWISE SHOWN.
4. NO COMBUSTIBLE MATERIAL SHALL BE LOCATED WITH IN 3 METERS OF VESSELS.
5. ALWAYS CONSIDER THE SAFE ACCESS TO THE TANK BY A ROAD TANKER WHEN PLANNING A LOCATION.
6. NO DRAINS, PITS OR SUMPS WITHIN 3m OF THE EDGE OF THE TANK, CONSULT THE ELGAS TECHNICAL TEAM.
7. TANKS SHALL NOT BE INSTALLED IN OR ABOVE A GROUND DEPRESSION.
8. OVERHEAD ELECTRICITY LINES SHALL NOT CROSS THE TANK COMPOUND.
9. WHERE SEPARATION DISTANCES CANNOT BE MET, THE USE OF VAPOUR BARRIERS, FIREWALLS AND THERMAL SCREENS CAN ASSIST, CHECK WITH ELGAS TECHNICAL STAFF.
10. FOR TANK LOCATIONS NEAR OTHER FLAMMABLE, COMBUSTIBLE OR DANGEROUS GOODS CHECK WITH ELGAS TECHNICAL STAFF.
11. THIS GENERIC DRAWING DOES NOT PRECLUDE THE NEED FOR A SITE SURVEY TO BE CONSIDERED IF SITE CONDITIONS AND /OR BUILDINGS DICTATE.
12. ALL CLAUSES OF AS/NZS1596 ARE TO BE OBSERVED WHEN PLANNING A TANK LOCATION.

Department of Planning and Environment

Issued under the Environmental Planning and Assessment Act 1979

Approved Application No DA 21/11288

Granted on the 23 June 2023

Signed M Brown

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ELGAS

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DRAWING NUMBER D-STD-LAY-GEN-001

SIZE A1

TITLE
ELGAS LPG
STANDARD DRAWING
TYPICAL LPG TANK INSTALLATION
GENERAL ARRANGEMENT

SCALE :	AS SHOWN		REVISION:	A
DRAWN :	J.LITTLE	01.08.19	DEPARTMENT:	TECHNICAL
CHECK :	L.NOTTIDGE	01.08.19		
APPVD :	L.NOTTIDGE	01.08.19		

REV	DATE	DESCRIPTION	DRAWN	CHECK	APP
B	20.08.19	ISSUED FOR INFORMATION	JL	LN	LN
A	01.08.19	INITIAL ISSUE	JL	LN	LN

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