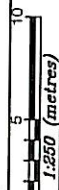


DESIGNED: DW	APPROVED:
DRAWN: TT/TB	DATE: 18/08/04
PROJECT: 43346112	STATUS: FINAL
CAD FILE: 003.DWG	
REVISION: A	



LEGEND

- UNDERGROUND STORAGE TANK
- HANDEX INSTALLED MONITORING WELL (MARCH 2001)
- HANDEX INSTALLED MONITORING WELL (JANUARY 2002)
- INFERRED GROUNDWATER FLOW DIRECTION
- SURFACE STAINING
- TELSTRA
- WATER
- ELECTRICITY
- SEWER PIT
- STORMWATER DRAIN
- TELSTRA PIT
- PRODUCT LINES
- URS INSTALLED MONITORING WELL (JULY 2003 + JUNE 2004)
- CROSS SECTION LOCATION

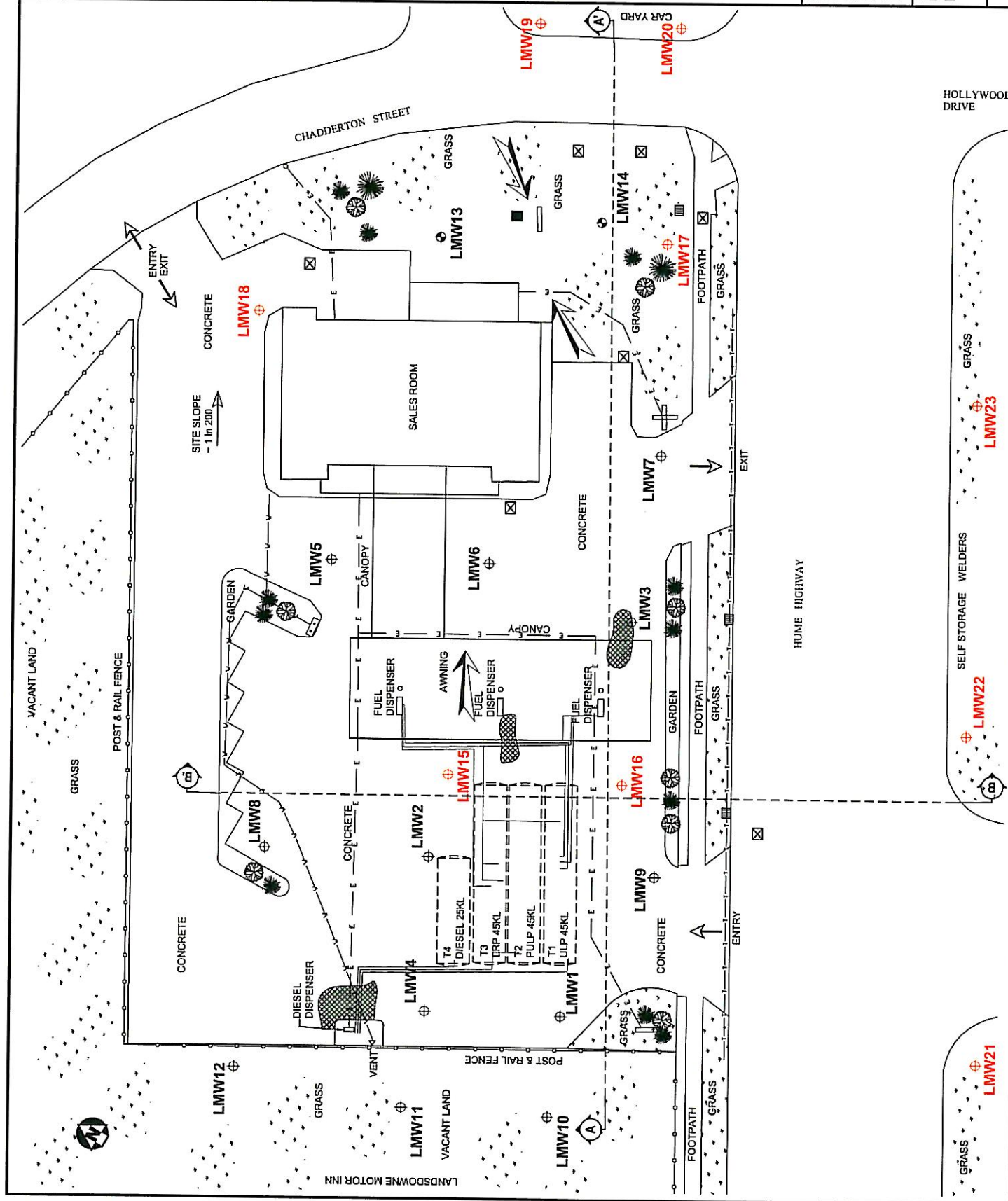
DATE DATA COLLECTED:
FEBRUARY 2003 & JULY 2004

CUBIT
MOBIL OIL AUSTRALIA
PTY LTD
PROJECT
POST PHASE 2 ENVIRONMENTAL SITE
ASSESSMENT QUIX SERVICE STATION
LANSVALE, 161 HUME HWY, NSW

TITLE
DETAILED SITE LAYOUT
PLAN

FIGURE
3

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SYSTEM DESIGN SPECIFICATION

LIQUID RECOVERY

EXPECTED FLOW	3.0 LTR / MIN / WELL HEAD
DESIGN FLOW RATE	30 LTR / MIN / WELL HEAD
NO. OF WELLS	4 WELLS
DEPTH OF WELLS	7 M => 45 PSI REQUIRED
COMPRESSED AIR	36 CFM @ 45 PSI

HYDROCARBON STRIPPING CYCLE

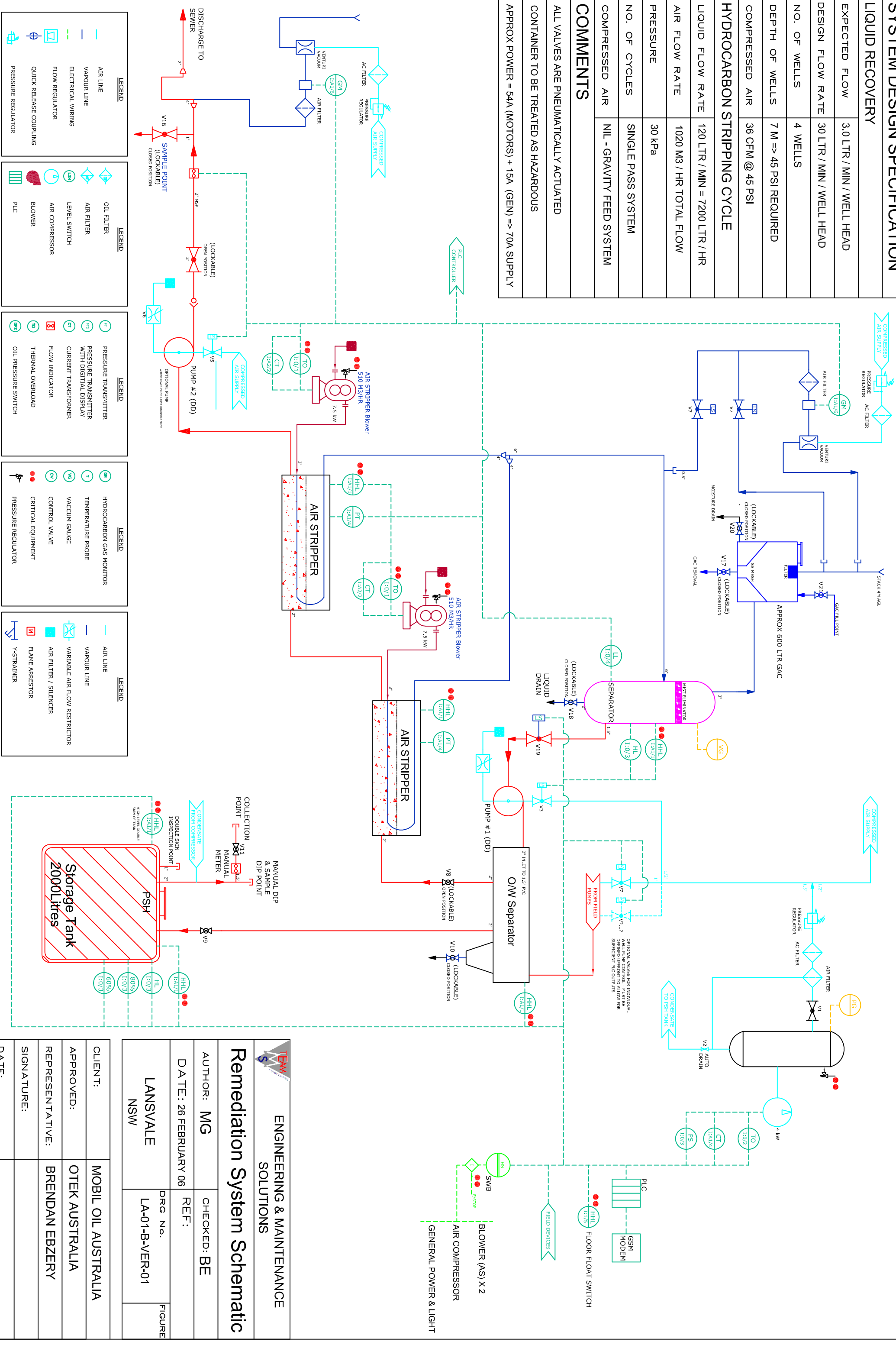
LIQUID FLOW RATE	120 LTR / MIN = 7200 LTR / HR
AIR FLOW RATE	1020 M3 / HR TOTAL FLOW
PRESSURE	30 kPa
NO. OF CYCLES	SINGLE PASS SYSTEM
COMPRESSED AIR	NIL - GRAVITY FEED SYSTEM

COMMENTS

ALL VALVES ARE PNEUMATICALLY ACTUATED

CONTAINER TO BE TREATED AS HAZARDOUS

APPROX POWER = 54A (MOTORS) + 15A (GEN) => 70A SUPPLY

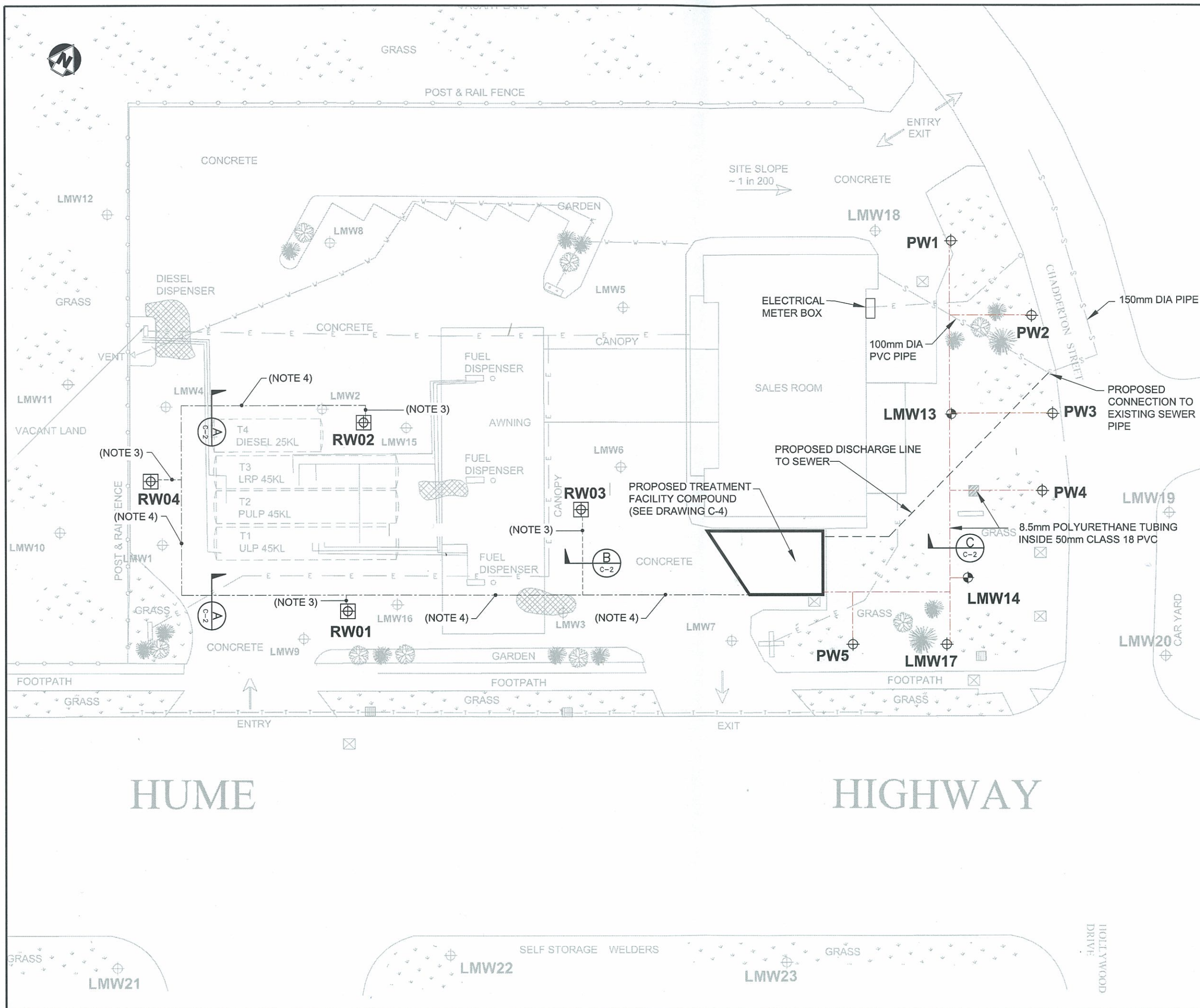


ENGINEERING & MAINTENANCE SOLUTIONS

Remediation System Schematic

AUTHOR: MG	CHECKED: BE
DATE: 26 FEBRUARY 06	REF:
LANSVALE NSW	DRG No. LA-01-B-VER-01
	FIGURE

CLIENT:	MOBIL OIL AUSTRALIA
APPROVED:	OTEK AUSTRALIA
REPRESENTATIVE:	BRENDAN EBZERY
SIGNATURE:	
DATE:	



0 5 10
1:250 (metres)

LEGEND

- UNDERGROUND STORAGE TANK
- HANDEX INSTALLED MONITORING WELL (MARCH 2001)
- HANDEX INSTALLED MONITORING WELL (JANUARY 2002)
- TELSTRA
- WATER
- ELECTRICITY
- SEWER
- STORMWATER DRAIN
- TELSTRA PIT
- PRODUCT LINES
- ENHANCED BIO-REMEDIATION INJECTING WELLS
- TOTAL FLUIDS PUMPING WELL
- PROPOSED CONVEYANCE PIPING

NOTES:

1. EXTRACTION WELLS RW01 AND RW02 ARE EXISTING. EXTRACTION WELLS RW03 AND RW04 TO BE INSTALLED
2. INJECTION WELLS PW1 THROUGH PW5 TO BE INSTALLED
3. 20mm O.D. NYLON 12 HOSE (AIR LINE) HOSE AND 25mm NYLON 12 (TOTAL FLUIDS) INSIDE 100mm CLASS 18 PVC
4. 20mm O.D. NYLON 12 (AIR SUPPLY LINE) AND 50mm COMPOSITE HOSE (TOTAL FLUIDS) INSIDE 100mm CLASS 18 PVC.

Drawn: TB	Approved: AT	Date: 23/08/2005
Job No.: 42423876	File No.: C1.dwg	
Client MOBIL OIL AUSTRALIA PTY LTD		
Project DETAILED DESIGN QUIX SERVICE STATION, 161 HUME HWY, LANSVALE, NSW		
Title SITE LAYOUT AND FIELD PIPING PLAN		
Figure: C-1	Rev. A A3	