

Transport Technical Note

DWT308 – MFG Oldham, Oldham Road, Manchester

December 2022

1. Introduction

This Transport Technical Note has been produced by DW Transportation Limited on behalf of Wyeth Projects Services for Motor Fuel Limited, which is seeking planning permission to provide six new electric vehicle (EV) charging bays and three jet wash bays at its Oldham Service Station on Oldham Road, Manchester.

This TN is produced in response to a letter from Manchester City Council to the applicant's agent, Carney Sweeney dated 1 November 2022, requesting information detailing anticipated vehicular movements, access arrangements and swept path analysis.

There are three further sections to this technical note following this introduction. Section 2 sets out the existing situation, Section 3 describes the proposed development and Section 4 contains a summary of the report.

There is one drawing included with this report: **Drawing TN01 Swept Path Analysis**

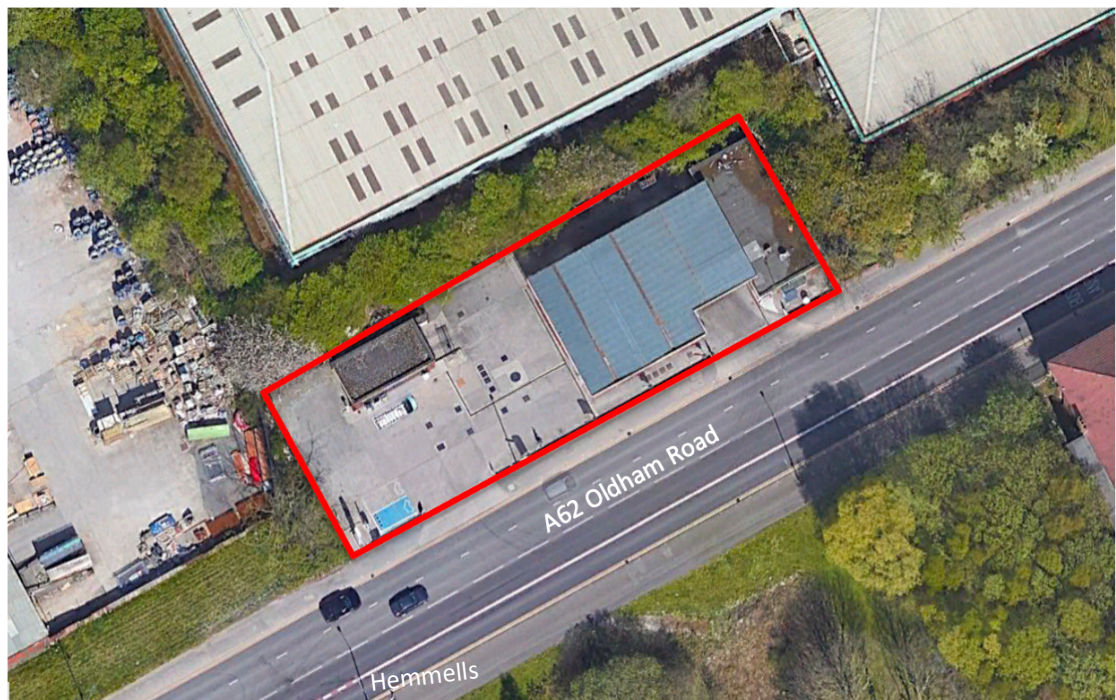
There is one appendix to this report: **Appendix A: Proposed Site Layout.**

2. Existing Situation

The site comprises the existing MFG Oldham petrol filling station on the A62 Oldham. The PFS has 8 fuel bays and a sales building with connecting canopy. There is also a drive-thru car wash and 1no. EV charging bay on the forecourt.

The application site is shown on Figure 2-1.

Figure 2-1
Indicative Application Area



Vehicle Access

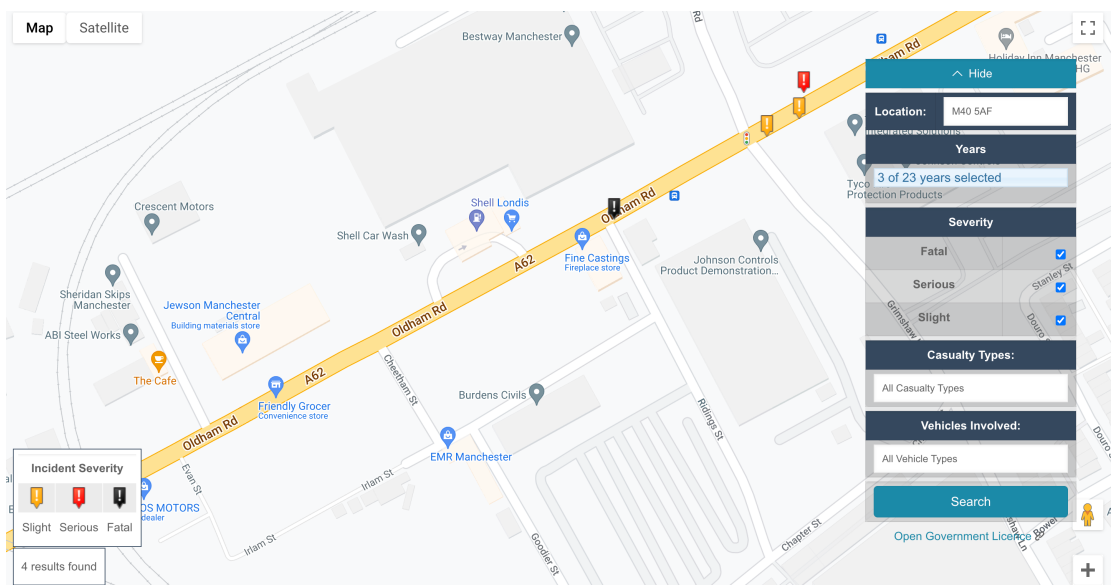
The PFS has separate entry and exit crossovers on the A62 Oldham Road creating a one-way operation through the fuel bays.

Highway Safety

Personal injury accident data held by the DfT indicates no accidents have been recorded at either of the site crossovers in the last 3 years. Figure 2-2 is an extract from the Crashmap database, which

shows the nearest accident location, which was a fatal accident at the junction of Ridings Street with Oldham Road.

Figure 2-2
Crashmap Extract (2019 – 2021)



A negligible increase in trips turning in and out of the site would not have a material impact on highway safety or the number of accidents recorded.

3. Proposed Development

The proposal is to introduce a 6-bay EV charging facility and replace the existing drive thru car wash with 3 no. jet wash bays at the MFG Oldham Service Station, A62 Oldham Road, Manchester.

Customers will arrive at the EV bays, and typically reverse in as shown on the swept paths on Drawing TN01. There is ample space on the forecourt to avoid any vehicular conflict, which is shown using swept path analysis on Drawing TN01. Some EV customers may choose to stay with their vehicle for the duration of the charge whilst others may wish to purchase something from the existing forecourt shop. Customers would undoubtedly take the most direct route to the shop entrance via the fuel bays. For this reason, no pedestrian facilities are proposed to link the EV bays with the shop.

A site layout plan is provided at **Appendix A**.

Proposed Vehicle Access

The proposal is to retain both forecourt crossovers.

Proposed Pedestrian Access

Whilst some EV owners may venture off the site, typically, the proposed development would not generate new pedestrian trips from the external highway network. Therefore, no additional pedestrian facilities are proposed as part of the proposed scheme.

Car Parking

No car parking is required to develop the proposed jet washes or EV charging facilities.

Vehicle Trip Generation

The proposed 6 No. EV bays are not a significant generator of new trips. The EV facility would be an alternative energy source and with a typical minimum charge time of 30 minutes (compared to 5 minutes at petrol/diesel pumps) there would be less turnover and therefore fewer vehicle movements generated. Considering trip generation from first principles, it is reasonable to assume that at full capacity, each EV bay would generate 4 two-way trips per hour. The 6 no. EV bays would therefore generate a maximum of 24 two-way trips in an hour (12 in + 12 out).

Car washes, especially where the washing is done by the customers are seasonal. In wet climates car washes are used less but used more during frosty spells to remove salts and during warm and dry days. In terms of trip generation, the peak is assumed to be during summer months. At full capacity and based on an average stay of 10-minutes plus change over, the site is expected to generate 5 customers per bay resulting in up to 15 customers in any given hour, therefore generating 30 two-way vehicle movements at the site access and on/off the public highway network. Many of these trips would be diverted off the A62 Oldham Road, with only a small proportion being new to the network, i.e. making a dedicated visit to the car wash.

Servicing

Servicing of the site would remain unchanged as there are no proposals to change the forecourt layout from what is permitted. Swept path analysis has been undertaken to show how a 15-metre fuel tanker travels through the site.

4. Summary

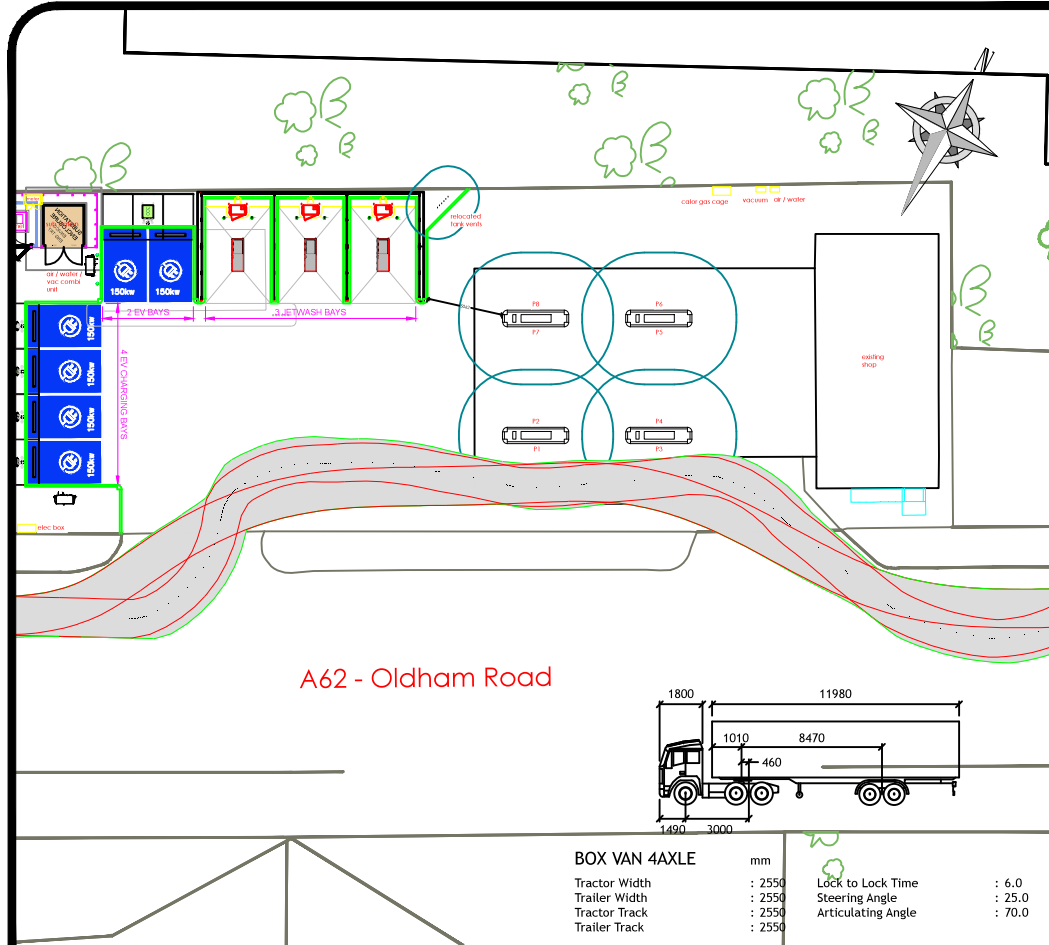
The proposal is to provide six new electric vehicle (EV) charging bays and three jet wash bays at the MFG Oldham Service Station on the A62 Oldham Road, Manchester.

The forecourt operation, including servicing, would not be affected by the proposals.

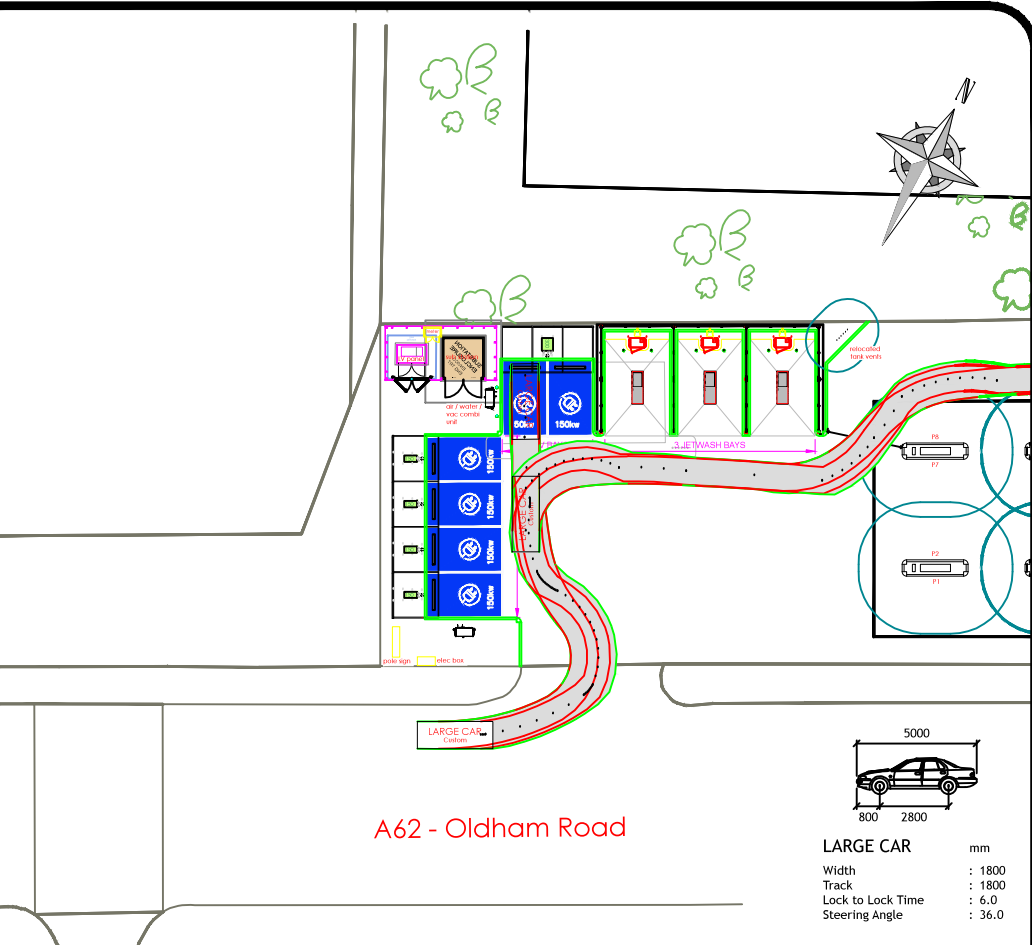
The proposed development would generate a negligible number of addition vehicle trips per hour. At full capacity, the EV bays would generate 24 two-way trips in an hour and the car wash up to 15 two-way trips in an hour.

An assessment of the proposals has identified no issues that would affect the existing efficiency and safety of the site.

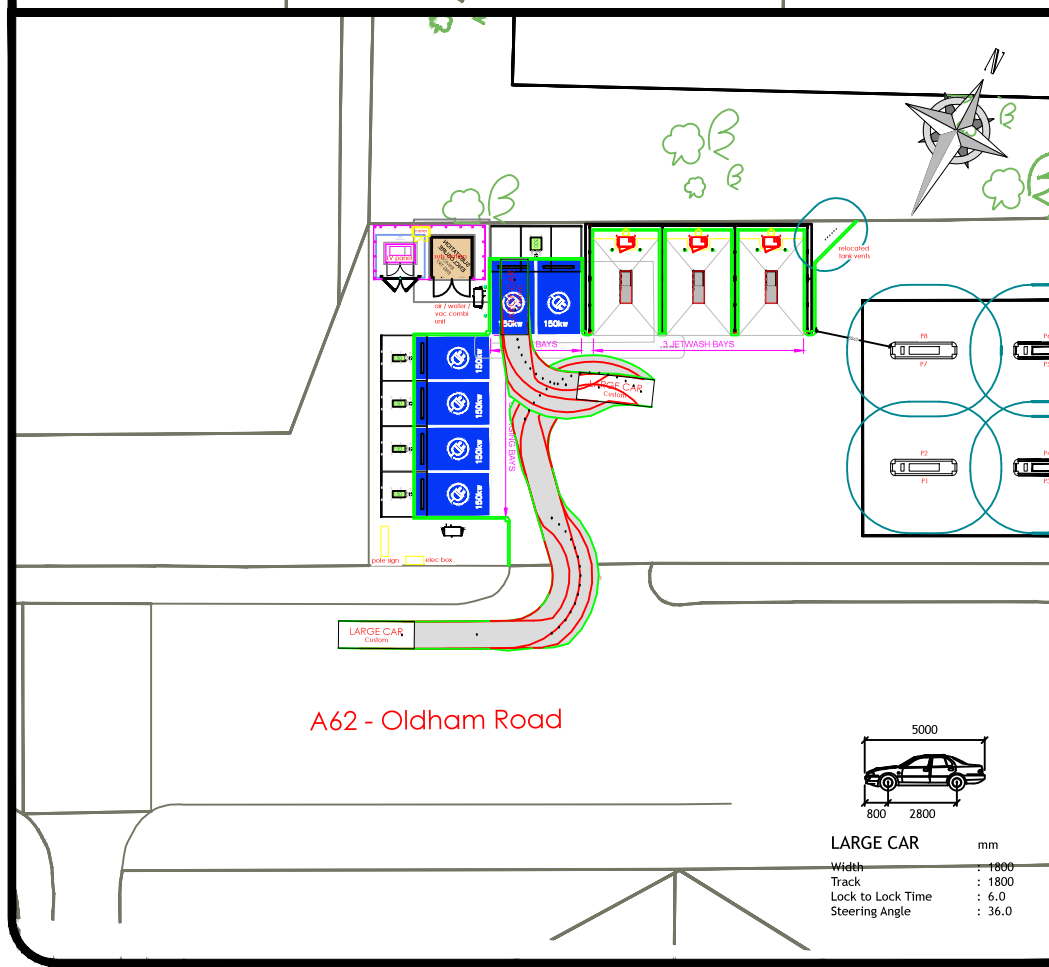
Drawing **TN01**



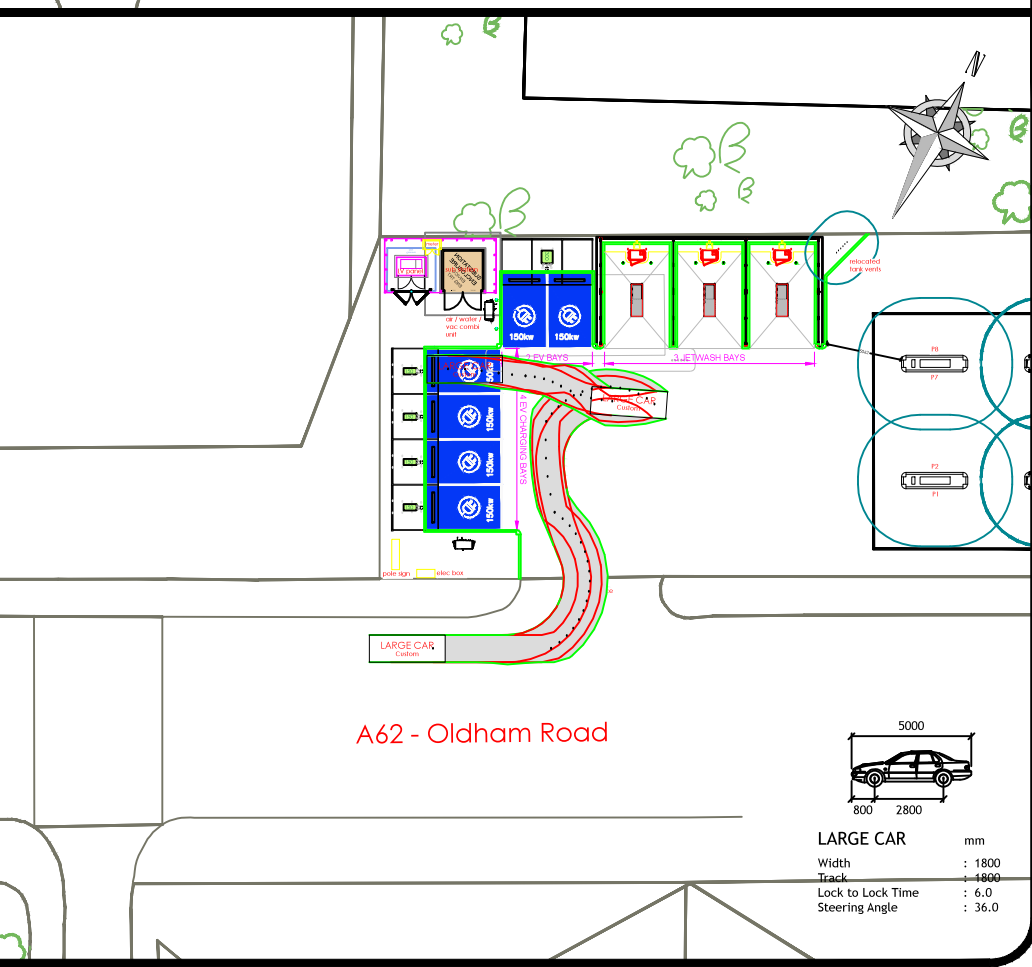
BOX VAN 4AXLE		mm	
Tractor Width	:	2550	Lock to Lock Time : 6.0
Trailer Width	:	2550	Steering Angle : 25.0
Tractor Track	:	2550	Articulating Angle : 70.0
Trailer Track	:	2550	



LARGE CAR		mm	
Width	:	1800	
Track	:	1800	
Lock to Lock Time	:	6.0	
Steering Angle	:	36.0	



LARGE CAR		mm	
Width	:	1800	
Track	:	1800	
Lock to Lock Time	:	6.0	
Steering Angle	:	36.0	



LARGE CAR		mm	
Width	:	1800	
Track	:	1800	
Lock to Lock Time	:	6.0	
Steering Angle	:	36.0	

Notes

No.	Revision/Issue	Date
-----	----------------	------

Client





DW Transportation Limited
9 Baron Road
Penarth
Vale of Glamorgan
CF64 3UD
T 07976 219322
www.dwtransportation.com

Project

MFG OLDHAM
OLDHAM ROAD, MANCHESTER

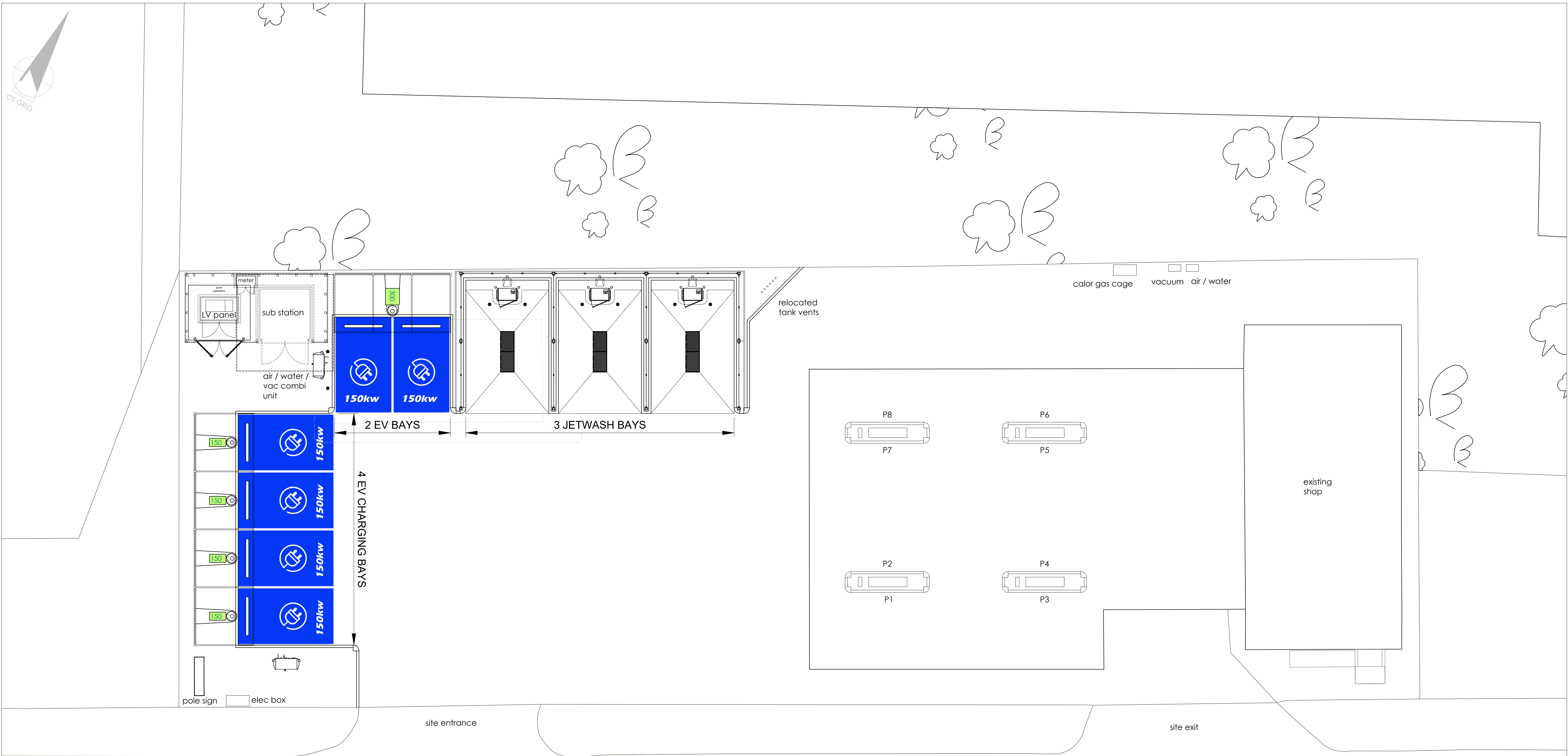
Drawing

SWEPT PATH ANALYSIS

Project No	DWT308	Drawing No.	TN01
Date	01.12.2022		
Scale	1:500@A3		

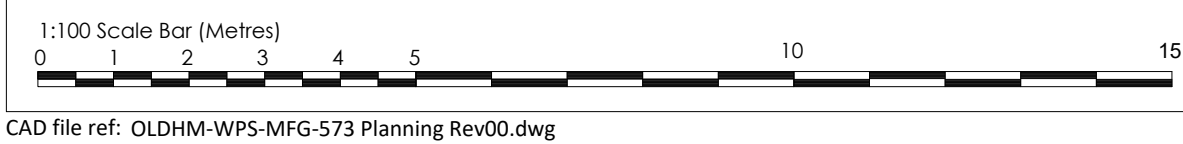
Appendix A

Proposed Site Layout



A62 - Oldham Road

Proposed Site Layout Plan
Scale 1:100



CAD file ref: OLDHM-WPS-MFG-573 Planning Rev00.dwg

rev	date	by	description
~	29/09/22	AF	Drawing created
CLIENT			
mfg Gladstone Place motor fuel group 36-38 Upper Marlborough Road St Albans, AL1 3UU			
PROJECT LOCATION			
Oldham Service Station 571 Oldham Road Manchester, M40 5AF			
DRAWING			
Proposed Site Plan			
Wyeth Projects Services The Cart Shed, Amberley Court, Amberley Lane, Millford, Surrey, GU8 5EB, United Kingdom			
Tel: +44 (0)1483 424704 Email: enquires@wyethprojects.com © This drawing is the copyright of WYETH PROJECTS SERVICES Ltd.			
Date: September 2022		Draw By: AF	
Scale: 1:100		Dwg No: WPS-MFG-573-P-03	
		A1 original plot size	
		Rev: ~	

PLANNING