

Highways Technical Note – Proposed Parking Provision

Construction of Two Industrial Warehouse Units With Ancillary Office Accommodation With Parking and Landscaping at Former North Bierley Waste Water Treatment Works, Oakenshaw, BD12 7ET

Planning Application Reference (Kirklees Council) – 2021/61/91932/E

17th August 2021

Introduction

This Highways Technical Note has been prepared by Andrew Moseley Associates (AMA) to provide details on the proposed levels of parking provision for two Industrial Warehouse Units at the former North Bierley Waste Water Treatment Works, Oakenshaw for a reserved matters planning application.

The Local Planning Authority (LPA) and Local Highway Authority (LHA) are Kirklees Council (KC)

Kirklees Council Parking Standards

Following the superseeding of the KC Unitary Development plan (UDP), the new KC Local Plan has not set local parking standards for residential and non-residential development.

Therefore it is the applicant's responsibility to provide a justification on the proposed number of proposed parking spaces for the proposed B1c, B2 and B8 uses.

Proposed Development

The proposed development layout is provided in **Appendix A**.

The proposed units are to provide flexible B1(c), B2 and B8 use to commercial flexibility of uses in the future. The proposed Gross Floor Area (GFA) of each unit is provided below.

- Unit 1 – 6,023sqm; and
- Unit 2 – 4,046sqm.

Proposed Parking Provision

The units propose the following car parking on site:

- Unit 1 – 60 spaces; and
- Unit 2 – 40 spaces

Parking Provision Justification – Parking Accumulation

Given KC Highways do not have prescribed standards for non-residential parking, AMA have prepared a suitable parking accumulation survey for each unit based upon the GFA of a B1(c), B2 and B8 uses.

TRICS has been used for the respective land use types to determine an appropriate level of parking provision is provided. In highways terms B1(c) is light industrial and generates comparable trip rates to B2 uses and therefore is also considered as General Industrial. A 10% buffer is also considered appropriate to accommodate any spikes in demand.

The full TRICS output is provided in **Appendix B** and the peak parking accumulation for each unit is detailed in **Table 1**.

UNIT	B1(c) / B2 PEAK ACCUMULATION	B1(c) / B2 PEAK + 10% BUFFER	B8 PEAK ACCUMULATION	B8 PEAK + 10% BUFFER
Unit 1 (6,023sqm)	50	55	48	53
Unit 2 (4,046sqm)	34	38	33	37

Table 1 Parking Accumulation

Therefore as detailed in **Table 1**, the peak parking accumulation with buffer can be accommodated by the development proposals without providing excessive parking for the required demand.

On this basis we would consider the proposed level of parking provision to be appropriate and this should be acceptable to KC Highways.

Conclusion

This Highways Technical Note provides clarifications upon the proposed parking provision of this reserved matters application for the LHAs consideration.

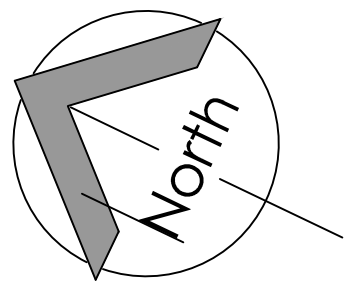
In conclusion, the information provided within this Note demonstrates that the proposed parking provision is acceptable in highways terms.

Appended Documents

Appendix A – Site Layout

Appendix B – TRICS Parking Accumulation Calculations

Appendix A – Site Layout



FENCING:
2.4m high paladin fence to site perimeter

LANDSCAPING:
Refer to Landscape Architect's details for further information

NOTES

UNIT	UNIT SIZE (GIA)	UNIT HEIGHT (U/S HAUNCH)	PARKING FACILITIES	SITE AREA
1	5575 sq.m (60,000 sq.ft) unit plus 448 sq.m (4,820 sq.ft) of first floor office accommodation	12m	60 no. parking spaces including 5 accessible spaces and 2 EVC spaces 12 no. cycle spaces	15,480 sq.m
2	3716 sq.m (40,000 sq.ft) unit plus 330 sq.m (3,560 sq.ft) of first floor office accommodation	12m	40 no. parking spaces including 4 accessible spaces and 2 EVC spaces 8 no. cycle spaces	10,820 sq.m

AREA OF APPLICATION SITE:
34,190 sqm (3.419 ha)

Rev A	Metric units added	14-05-2021	NG
Designation	Details of Revision	Date	Initials/Sign

ellis healey

architecture

PLANNING

PROJECT: PROPOSED INDUSTRIAL DEVELOPMENT AT FORMER BIERLEY TREATMENT WORKS, CLECKHEATON

TITLE: PROPOSED G.A. SITE PLAN

DRAWING NO: 2115 PL 103 (A)

BYCHECKED: NG / AH DATE: APRIL 2021

SCALE @A1: 1:500

Tower Works, Globe Road, Leeds, LS11 5QG
Tel: 0113 3453090 E-mail: info@ellishealey.com

Appendix B – TRICS Parking Accumulation Calculations

Trip Rate Pa Gross floor area

TRIP RATE for Land Use 02 - EMPLOYMENT/C - INDUSTRIAL UNIT

Count Type: TOTAL VEHICLES

			ARRIVALS			DEPARTURES			TOTALS		
No.	Ave.	Trip	No.	Ave.	Trip	No.	Ave.	Trip	No.	Ave.	Trip
Time Range	Days	GFA	Rate	Days	GFA	Rate	Days	GFA	Rate	Days	GFA
00:00-00:30											
00:30-01:00											
01:00-01:30											
01:30-02:00											
02:00-02:30											
02:30-03:00											
03:00-03:30											
03:30-04:00											
04:00-04:30											
04:30-05:00											
05:00-05:30	2	1998	0	2	1998	0	2	1998	0		
05:30-06:00	2	1998	0.075	2	1998	0	2	1998	0.075		
06:00-06:30	2	1998	0.025	2	1998	0.075	2	1998	0.1		
06:30-07:00	3	2115	0.173	3	2115	0.032	3	2115	0.205		
07:00-07:30	15	3270	0.124	15	3270	0.022	15	3270	0.146		
07:30-08:00	15	3270	0.133	15	3270	0.031	15	3270	0.164		
08:00-08:30	16	3184	0.181	16	3184	0.037	16	3184	0.218		
08:30-09:00	16	3184	0.186	16	3184	0.045	16	3184	0.231		
09:00-09:30	16	3184	0.124	16	3184	0.057	16	3184	0.181		
09:30-10:00	16	3184	0.137	16	3184	0.102	16	3184	0.239		
10:00-10:30	16	3184	0.122	16	3184	0.065	16	3184	0.187		
10:30-11:00	16	3184	0.114	16	3184	0.084	16	3184	0.198		
11:00-11:30	16	3184	0.071	16	3184	0.077	16	3184	0.148		
11:30-12:00	16	3184	0.061	16	3184	0.067	16	3184	0.128		
12:00-12:30	16	3184	0.106	16	3184	0.102	16	3184	0.208		
12:30-13:00	16	3184	0.098	16	3184	0.12	16	3184	0.218		
13:00-13:30	16	3184	0.116	16	3184	0.163	16	3184	0.279		
13:30-14:00	16	3184	0.094	16	3184	0.104	16	3184	0.198		
14:00-14:30	16	3184	0.088	16	3184	0.073	16	3184	0.161		
14:30-15:00	16	3184	0.079	16	3184	0.092	16	3184	0.171		
15:00-15:30	16	3184	0.063	16	3184	0.079	16	3184	0.142		
15:30-16:00	16	3184	0.049	16	3184	0.11	16	3184	0.159		
16:00-16:30	16	3184	0.059	16	3184	0.114	16	3184	0.173		
16:30-17:00	16	3184	0.033	16	3184	0.155	16	3184	0.188		
17:00-17:30	16	3184	0.033	16	3184	0.194	16	3184	0.227		
17:30-18:00	16	3184	0.043	16	3184	0.108	16	3184	0.151		
18:00-18:30	16	3184	0.02	16	3184	0.139	16	3184	0.159		
18:30-19:00	15	3240	0.023	15	3240	0.029	15	3240	0.052		
19:00-19:30	3	3998	0.05	3	3998	0.025	3	3998	0.075		
19:30-20:00	3	3998	0.025	3	3998	0.05	3	3998	0.075		
20:00-20:30	3	3998	0.017	3	3998	0.108	3	3998	0.125		
20:30-21:00	3	3998	0.017	3	3998	0.042	3	3998	0.059		
21:00-21:30	1	8000	0	1	8000	0	1	8000	0		
21:30-22:00	1	8000	0	1	8000	0	1	8000	0		
22:00-22:30											
22:30-23:00											
23:00-23:30											
23:30-24:00											
Daily Trip Rates:			2,539			2,501			5.04		

Trip Rate F Gross floor area

TRIP RATE for Land Use 02 - EMPLOYMENT/C - INDUSTRIAL UNIT

Count Type: TOTAL VEHICLES

Daily Trip Rates:

2.539

2.501

5.04

B8 - Storage and Distribution Use Parking Accumulation at 4,046sqm

TRIP RATE for Land Use 02 - EMPLOYMENT/F - WAREHOUSING (COMMERCIAL)

Calculation Factor: 100 sqm

Count Type: TOTAL VEHICLES

		ARRIVALS				DEPARTURES				TOTALS	
No.		Ave.		No.	Ave.	Trip	No.	Ave.		Trip	
Time Rang Days		GFA	Rate	Days	GFA	Rate	Days	GFA	Rate	Trip	Rate
00:00-00:30											
00:30-01:00											
01:00-01:30											
01:30-02:00											
02:00-02:30											
02:30-03:00											
03:00-03:30											
03:30-04:00											
04:00-04:30											
04:30-05:00											
										Arrivals	Departures
										Movements	Parking Accumulation
05:00-05:30	1	3500	0.057	1	3500	0	1	3500	0.057	2	0
05:30-06:00	1	3500	0.171	1	3500	0.029	1	3500	0.2	7	1
06:00-06:30	2	4168	0.096	2	4168	0.108	2	4168	0.204	4	4
06:30-07:00	2	4168	0.144	2	4168	0.06	2	4168	0.204	6	2
07:00-07:30	7	3968	0.09	7	3968	0.079	7	3968	0.169	4	3
07:30-08:00	7	3968	0.13	7	3968	0.054	7	3968	0.184	5	2
08:00-08:30	7	3968	0.191	7	3968	0.079	7	3968	0.27	8	3
08:30-09:00	7	3968	0.245	7	3968	0.097	7	3968	0.342	10	4
09:00-09:30	7	3968	0.194	7	3968	0.061	7	3968	0.255	8	2
09:30-10:00	7	3968	0.122	7	3968	0.068	7	3968	0.19	5	3
10:00-10:30	7	3968	0.104	7	3968	0.104	7	3968	0.208	4	4
10:30-11:00	7	3968	0.097	7	3968	0.108	7	3968	0.205	4	4
11:00-11:30	7	3968	0.104	7	3968	0.148	7	3968	0.252	4	6
11:30-12:00	7	3968	0.097	7	3968	0.144	7	3968	0.241	4	6
12:00-12:30	7	3968	0.086	7	3968	0.108	7	3968	0.194	3	4
12:30-13:00	7	3968	0.09	7	3968	0.101	7	3968	0.191	4	4
13:00-13:30	7	3968	0.086	7	3968	0.112	7	3968	0.198	3	5
13:30-14:00	7	3968	0.119	7	3968	0.09	7	3968	0.209	5	4
14:00-14:30	7	3968	0.068	7	3968	0.115	7	3968	0.183	3	5
14:30-15:00	7	3968	0.101	7	3968	0.086	7	3968	0.187	4	3
15:00-15:30	7	3968	0.09	7	3968	0.101	7	3968	0.191	4	4
15:30-16:00	7	3968	0.083	7	3968	0.115	7	3968	0.198	3	5
16:00-16:30	7	3968	0.119	7	3968	0.101	7	3968	0.22	5	4
16:30-17:00	7	3968	0.09	7	3968	0.115	7	3968	0.205	4	5
17:00-17:30	7	3968	0.079	7	3968	0.212	7	3968	0.291	3	9
17:30-18:00	7	3968	0.043	7	3968	0.133	7	3968	0.176	2	5
18:00-18:30	6	4379	0.042	6	4379	0.141	6	4379	0.183	2	6
18:30-19:00	6	4379	0.046	6	4379	0.076	6	4379	0.122	2	3
19:00-19:30	1	3500	0	1	3500	0.029	1	3500	0.029	0	1
19:30-20:00	1	3500	0	1	3500	0	1	3500	0	0	0
20:00-20:30	1	3500	0	1	3500	0	1	3500	0	0	0
20:30-21:00	1	3500	0	1	3500	0	1	3500	0	0	0
21:00-21:30										0	0
21:30-22:00										0	0
22:00-22:30											
22:30-23:00											
23:00-23:30											
23:30-24:00											
Daily Trip Rates:			2.984			2.774			5.758		

TRICS 7.8.2

Trip Rate F Gross floor area

B8 - Storage and Distribution Use Parking Accumulation at 6,023sqm

TRIP RATE for Land Use 02 - EMPLOYMENT/F - WAREHOUSING (COMMERCIAL)

Calculation Factor: 100 sqm

Count Type: TOTAL VEHICLES

		ARRIVALS			DEPARTURES			TOTALS						
No.	Ave.	Trip	No.	Ave.	Trip	No.	Ave.	Trip						
Time Rang	GFA	Rate	Days	GFA	Rate	Days	GFA	Rate						
00:00-00:30														
00:30-01:00														
01:00-01:30														
01:30-02:00														
02:00-02:30														
02:30-03:00														
03:00-03:30														
03:30-04:00														
04:00-04:30														
04:30-05:00														
05:00-05:30	1	3500	0.057	1	3500	0	1	3500	0.057		Arrivals	Departures	Movements	Parking Accumulation
05:30-06:00	1	3500	0.171	1	3500	0.029	1	3500	0.2		3	0	3	
06:00-06:30	2	4168	0.096	2	4168	0.108	2	4168	0.204		10	2	9	12
06:30-07:00	2	4168	0.144	2	4168	0.06	2	4168	0.204		6	7	-1	11
07:00-07:30	7	3968	0.09	7	3968	0.079	7	3968	0.169		9	4	5	16
07:30-08:00	7	3968	0.13	7	3968	0.079	7	3968	0.169		5	5	1	17
07:30-08:00	7	3968	0.13	7	3968	0.054	7	3968	0.184		8	3	5	22
08:00-08:30	7	3968	0.191	7	3968	0.079	7	3968	0.27		12	5	7	28
08:30-09:00	7	3968	0.245	7	3968	0.097	7	3968	0.342		15	6	9	37
09:00-09:30	7	3968	0.194	7	3968	0.061	7	3968	0.255		12	4	8	45
09:30-10:00	7	3968	0.122	7	3968	0.068	7	3968	0.19		7	4	3	48
10:00-10:30	7	3968	0.104	7	3968	0.104	7	3968	0.208		6	6	0	48
10:30-11:00	7	3968	0.097	7	3968	0.108	7	3968	0.205		6	7	-1	48
11:00-11:30	7	3968	0.104	7	3968	0.148	7	3968	0.252		6	9	-3	45
11:30-12:00	7	3968	0.097	7	3968	0.144	7	3968	0.241		6	9	-3	42
12:00-12:30	7	3968	0.086	7	3968	0.108	7	3968	0.194		5	7	-1	41
12:30-13:00	7	3968	0.09	7	3968	0.101	7	3968	0.191		5	6	-1	40
13:00-13:30	7	3968	0.086	7	3968	0.112	7	3968	0.198		5	7	-2	39
13:30-14:00	7	3968	0.119	7	3968	0.09	7	3968	0.209		7	5	2	41
14:00-14:30	7	3968	0.068	7	3968	0.115	7	3968	0.183		4	7	-3	38
14:30-15:00	7	3968	0.101	7	3968	0.086	7	3968	0.187		6	5	1	39
15:00-15:30	7	3968	0.09	7	3968	0.101	7	3968	0.191		5	6	-1	38
15:30-16:00	7	3968	0.083	7	3968	0.115	7	3968	0.198		5	7	-2	36
16:00-16:30	7	3968	0.119	7	3968	0.101	7	3968	0.22		7	6	1	37
16:30-17:00	7	3968	0.09	7	3968	0.115	7	3968	0.205		5	7	-2	36
17:00-17:30	7	3968	0.079	7	3968	0.212	7	3968	0.291		5	13	-8	28
17:30-18:00	7	3968	0.043	7	3968	0.133	7	3968	0.176		3	8	-5	22
18:00-18:30	6	4379	0.042	6	4379	0.141	6	4379	0.183		3	8	-6	16
18:30-19:00	6	4379	0.046	6	4379	0.076	6	4379	0.122		3	5	-2	14
19:00-19:30	1	3500	0	1	3500	0.029	1	3500	0.029		0	2	-2	13
19:30-20:00	1	3500	0	1	3500	0	1	3500	0		0	0	0	13
20:00-20:30	1	3500	0	1	3500	0	1	3500	0		0	0	0	13
20:30-21:00	1	3500	0	1	3500	0	1	3500	0		0	0	0	13
21:00-21:30											0	0	0	13
21:30-22:00											0	0	0	13
22:00-22:30														
22:30-23:00														
23:00-23:30														
23:30-24:00														
Daily Trip Rates:		2.984			2.774			5.758						