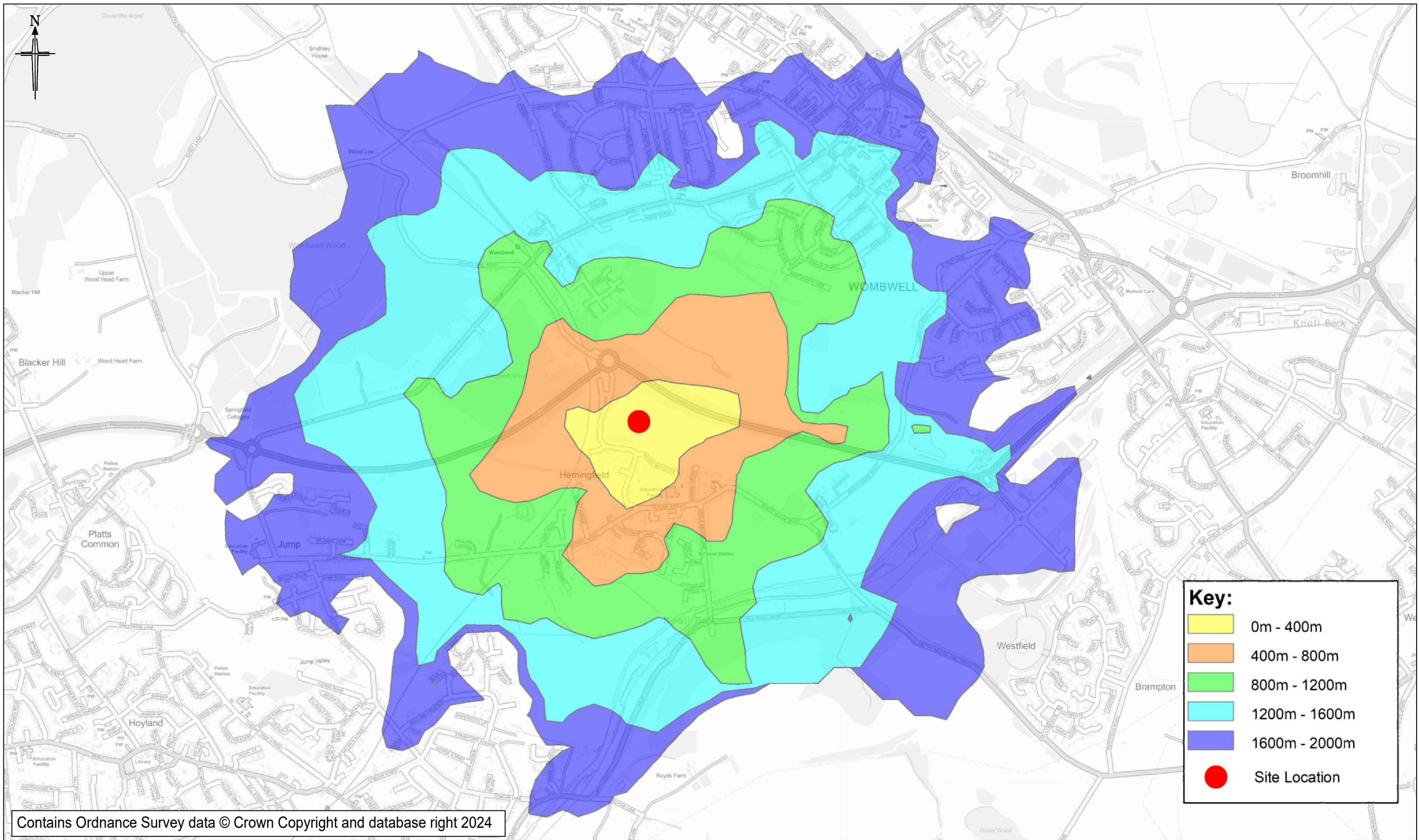


# **APPENDIX BGH 7**



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[twitter.com/Bryanghall1](https://twitter.com/Bryanghall1)

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WORKSAFE

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Title: TRACC 2KM WALKING CATCHMENT PLAN

Status: FOR PLANNING

Scale: N.T.S.

Size: A3 - 420 x 297

Drawn: PP

Chkd: RD

Appvd: MC

Rev:	Date:	Amendment:	DRN	CHK	APR
Client:			PTARMIGAN LAND NORTH LTD		
Project:			RESIDENTIAL DEVELOPMENT HEMINGFIELD, BARNSELY		
Drawing No:			23/160/ACC/001		
Job No:			23-160		
Revision:			-		
Date:			16/01/2024		

# **APPENDIX BGH 8**

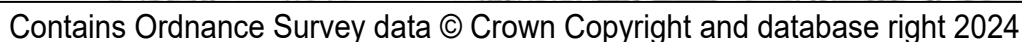




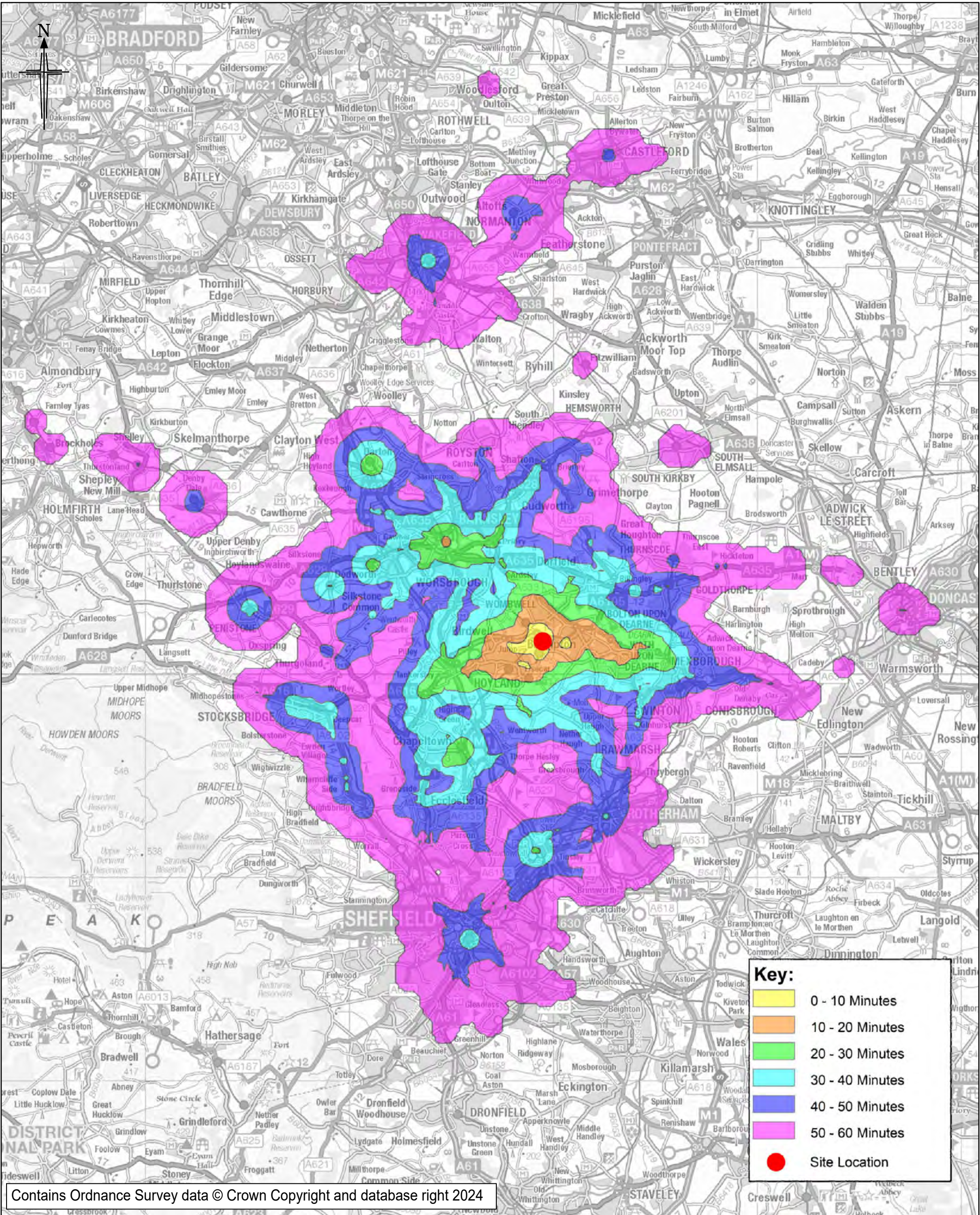


# **APPENDIX BGH 9**





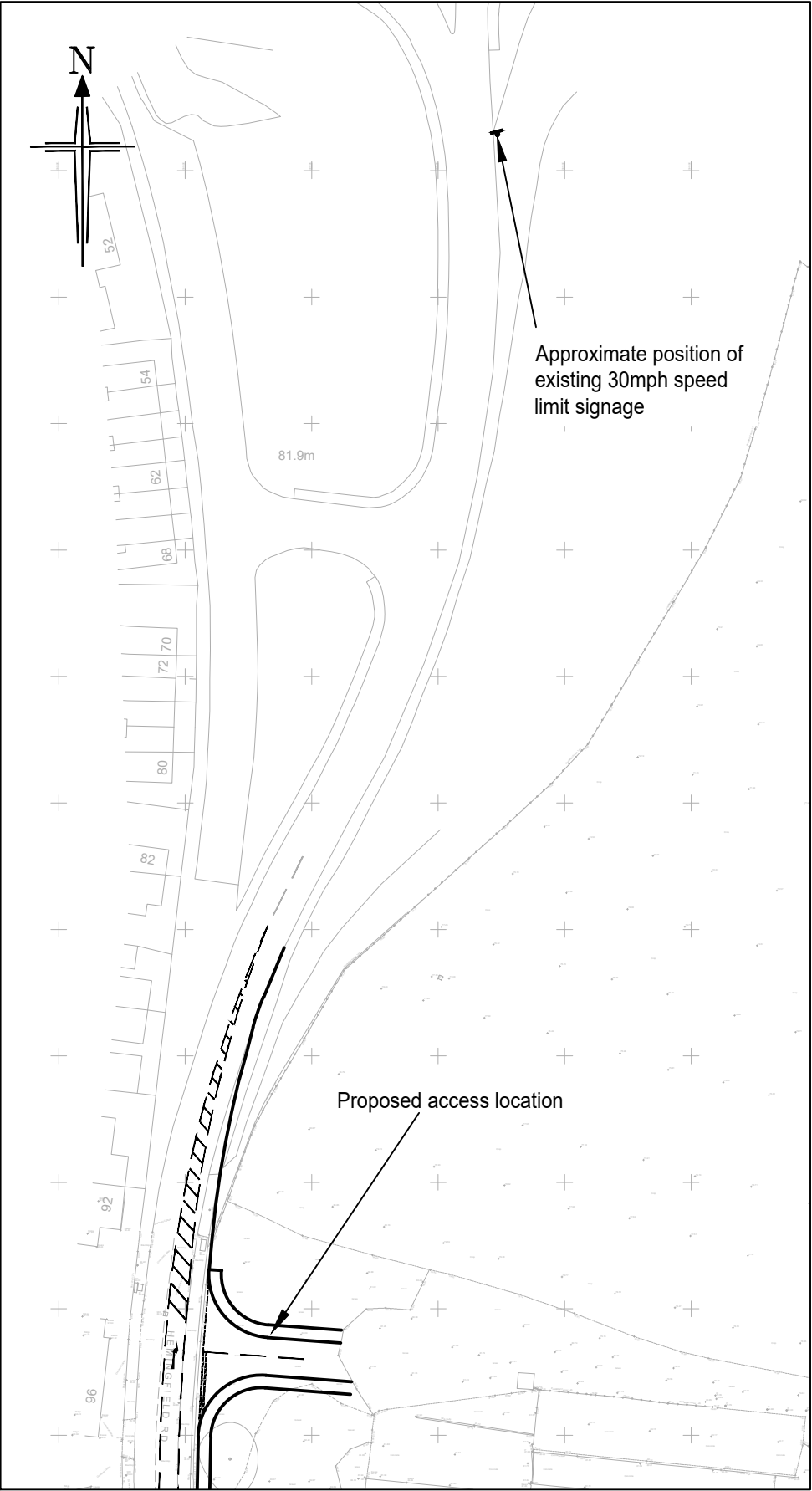
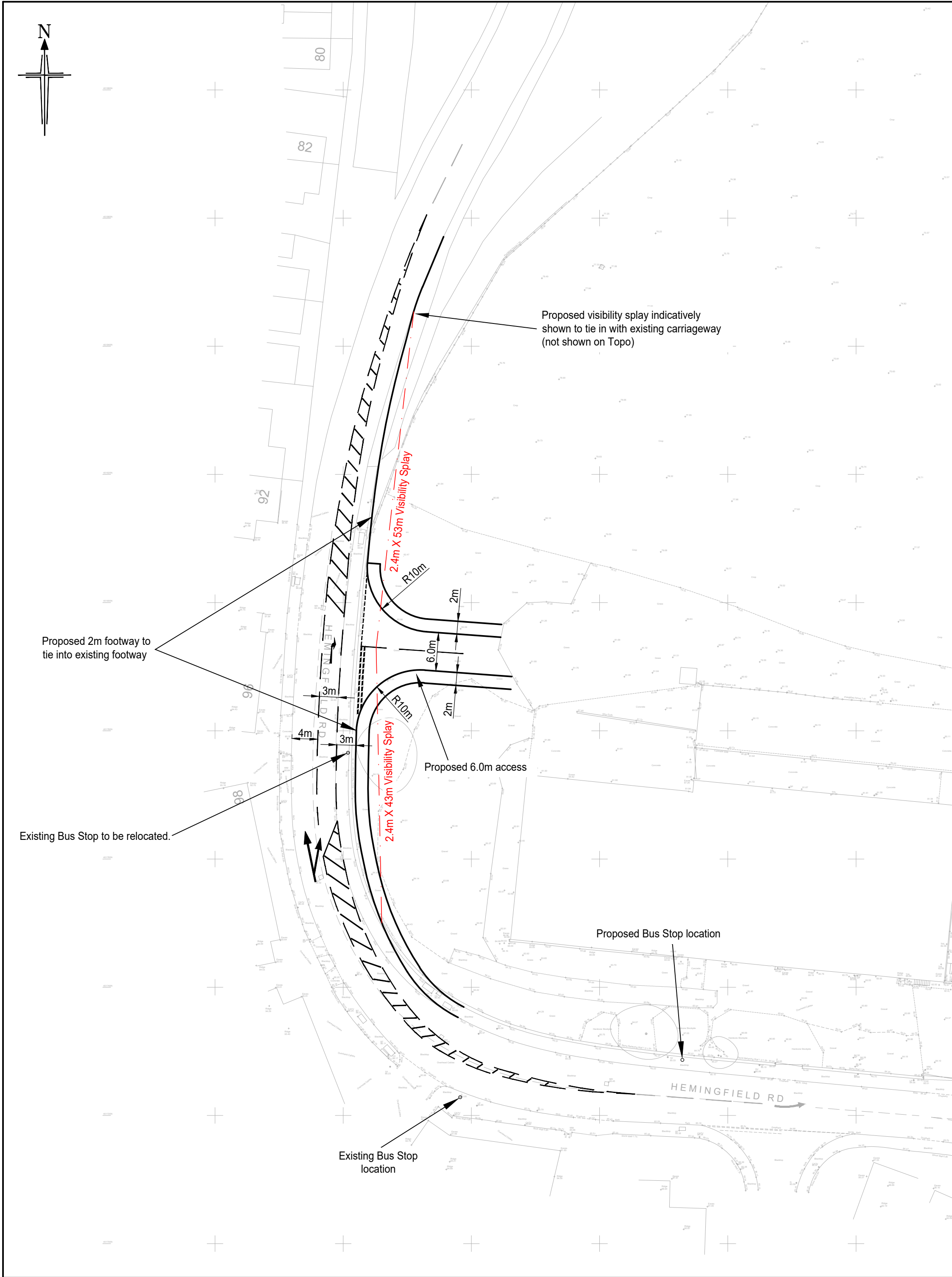






# **APPENDIX BGH 10**





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C	18.01.24	Visibility amended to ATC speeds	RD	MC	MC
B	06.11.23	Title block updated following client comments	MIT	MC	SCW
Rev:	Date:	Amendment:	DRN	CHK	APR

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Client: Ptarmigan Land North Ltd

Status: For Planning

Scale: 1:500  
Size: A2 - 594 x 420  
Drawn: MIT  
Chkd: MC  
Appvd: BR

Project: Residential Development Hemingfield, Barnsley

Title: Proposed Access Arrangement -  
Right Turn Ghost Island Junction

Drawing No: 23/160/SKH/007  
Job No: 23-160  
Revision: C  
Date: 13.10.23



# **APPENDIX BGH 11**







# **APPENDIX BGH 12**



Calculation Reference: AUDIT-604801-231130-1139

TRIP RATE CALCULATION SELECTION PARAMETERS:

Land Use : 03 - RESIDENTIAL  
Category : A - HOUSES PRIVATELY OWNED  
TOTAL VEHICLES

Selected regions and areas:

02	SOUTH EAST	
	ES	EAST SUSSEX 1 days
	HC	HAMPSHIRE 2 days
	HF	HERTFORDSHIRE 1 days
	KC	KENT 1 days
	SC	SURREY 1 days
	SP	SOUTHAMPTON 1 days
	WS	WEST SUSSEX 2 days
04	EAST ANGLIA	
	CA	CAMBRIDGESHIRE 1 days
	NF	NORFOLK 5 days
06	WEST MIDLANDS	
	ST	STAFFORDSHIRE 1 days

*This section displays the number of survey days per TRICS® sub-region in the selected set*



#### Primary Filtering selection:

*This data displays the chosen trip rate parameter and its selected range. Only sites that fall within the parameter range are included in the trip rate calculation.*

Parameter: No of Dwellings  
 Actual Range: 152 to 250 (units: )  
 Range Selected by User: 150 to 250 (units: )

Parking Spaces Range: All Surveys Included

Parking Spaces per Dwelling Range: All Surveys Included

Bedrooms per Dwelling Range: All Surveys Included

Percentage of dwellings privately owned: All Surveys Included

#### Public Transport Provision:

Selection by: Include all surveys

Date Range: 01/01/15 to 15/05/23

*This data displays the range of survey dates selected. Only surveys that were conducted within this date range are included in the trip rate calculation.*

#### Selected survey days:

Monday	4 days
Tuesday	4 days
Wednesday	3 days
Thursday	4 days
Friday	1 days

*This data displays the number of selected surveys by day of the week.*

#### Selected survey types:

Manual count	12 days
Directional ATC Count	4 days

*This data displays the number of manual classified surveys and the number of unclassified ATC surveys, the total adding up to the overall number of surveys in the selected set. Manual surveys are undertaken using staff, whilst ATC surveys are undertaken using machines.*

#### Selected Locations:

Edge of Town	13
Neighbourhood Centre (PPS6 Local Centre)	3

*This data displays the number of surveys per main location category within the selected set. The main location categories consist of Free Standing, Edge of Town, Suburban Area, Neighbourhood Centre, Edge of Town Centre, Town Centre and Not Known.*

#### Selected Location Sub Categories:

Residential Zone	11
Village	3
Out of Town	2

*This data displays the number of surveys per location sub-category within the selected set. The location sub-categories consist of Commercial Zone, Industrial Zone, Development Zone, Residential Zone, Retail Zone, Built-Up Zone, Village, Out of Town, High Street and No Sub Category.*

#### Inclusion of Servicing Vehicles Counts:

Servicing vehicles Included	6 days - Selected
Servicing vehicles Excluded	19 days - Selected

#### Secondary Filtering selection:

#### Use Class:

C3	16 days
----	---------

*This data displays the number of surveys per Use Class classification within the selected set. The Use Classes Order (England) 2020 has been used for this purpose, which can be found within the Library module of TRICS@.*

#### Population within 500m Range:

All Surveys Included

Secondary Filtering selection (Cont.):

Population within 1 mile:

1,001 to 5,000	4 days
5,001 to 10,000	5 days
10,001 to 15,000	5 days
15,001 to 20,000	2 days

*This data displays the number of selected surveys within stated 1-mile radii of population.*

Population within 5 miles:

5,001 to 25,000	4 days
25,001 to 50,000	2 days
50,001 to 75,000	2 days
75,001 to 100,000	3 days
125,001 to 250,000	3 days
250,001 to 500,000	2 days

*This data displays the number of selected surveys within stated 5-mile radii of population.*

Car ownership within 5 miles:

0.6 to 1.0	3 days
1.1 to 1.5	11 days
1.6 to 2.0	2 days

*This data displays the number of selected surveys within stated ranges of average cars owned per residential dwelling, within a radius of 5-miles of selected survey sites.*

Travel Plan:

Yes	12 days
No	4 days

*This data displays the number of surveys within the selected set that were undertaken at sites with Travel Plans in place, and the number of surveys that were undertaken at sites without Travel Plans.*

PTAL Rating:

No PTAL Present	16 days
-----------------	---------

*This data displays the number of selected surveys with PTAL Ratings.*



LIST OF SITES relevant to selection parameters

1	CA-03-A-06 CRAFT'S WAY NEAR CAMBRIDGE BAR HILL Neighbourhood Centre (PPS6 Local Centre) Village Total No of Dwellings: 207 Survey date: FRIDAY 22/06/18	MIXED HOUSES	CAMBRIDGESHIRE	Survey Type: MANUAL
2	ES-03-A-03 SHEPHAM LANE POLEGATE  Edge of Town Residential Zone Total No of Dwellings: 212 Survey date: MONDAY 11/07/16	MIXED HOUSES & FLATS	EAST SUSSEX	Survey Type: MANUAL
3	HC-03-A-24 STONEHAM LANE EASTLEIGH  Edge of Town Residential Zone Total No of Dwellings: 243 Survey date: WEDNESDAY 10/11/21	MIXED HOUSES & FLATS	HAMPSHIRE	Survey Type: MANUAL
4	HC-03-A-29 CROW LANE RINGWOOD CROW Edge of Town Residential Zone Total No of Dwellings: 195 Survey date: THURSDAY 30/06/22	MIXED HOUSES & FLATS	HAMPSHIRE	Survey Type: MANUAL
5	HF-03-A-03 HARE STREET ROAD BUNTINGFORD  Edge of Town Residential Zone Total No of Dwellings: 160 Survey date: MONDAY 08/07/19	MIXED HOUSES	HERTFORDSHIRE	Survey Type: MANUAL
6	KC-03-A-08 MAIDSTONE ROAD CHARING  Neighbourhood Centre (PPS6 Local Centre) Village Total No of Dwellings: 159 Survey date: TUESDAY 22/05/18	MIXED HOUSES	KENT	Survey Type: MANUAL
7	NF-03-A-13 BEAUFORT WAY GREAT YARMOUTH BRADWELL Edge of Town Residential Zone Total No of Dwellings: 198 Survey date: TUESDAY 11/09/18	MIXED HOUSES	NORFOLK	Survey Type: DIRECTIONAL ATC COUNT
8	NF-03-A-15 SILFIELD ROAD WYMONDHAM  Edge of Town Out of Town Total No of Dwellings: 235 Survey date: THURSDAY 20/09/18	MIXED HOUSES & FLATS	NORFOLK	Survey Type: DIRECTIONAL ATC COUNT
9	NF-03-A-32 HUNSTANTON ROAD HUNSTANTON  Edge of Town Residential Zone Total No of Dwellings: 164 Survey date: WEDNESDAY 21/09/22	MIXED HOUSES & FLATS	NORFOLK	Survey Type: DIRECTIONAL ATC COUNT

LIST OF SITES relevant to selection parameters (Cont.)

10	NF-03-A-39 HEATH DRIVE HOLT	MIXED HOUSES	NORFOLK
	Edge of Town Residential Zone Total No of Dwellings: 212 Survey date: <i>TUESDAY</i> 27/09/22 Survey Type: <i>MANUAL</i>		
11	NF-03-A-48 BRANDON ROAD SWAFFHAM	MIXED HOUSES	NORFOLK
	Edge of Town Residential Zone Total No of Dwellings: 181 Survey date: <i>THURSDAY</i> 19/09/19 Survey Type: <i>DIRECTIONAL ATC COUNT</i>		
12	SC-03-A-05 REIGATE ROAD HORLEY	MIXED HOUSES	SURREY
	Edge of Town Residential Zone Total No of Dwellings: 207 Survey date: <i>MONDAY</i> 01/04/19 Survey Type: <i>MANUAL</i>		
13	SP-03-A-02 BARNFIELD WAY NEAR SOUTHAMPTON HEDGE END	MIXED HOUSES & FLATS	SOUTHAMPTON
	Edge of Town Out of Town Total No of Dwellings: 250 Survey date: <i>TUESDAY</i> 12/10/21 Survey Type: <i>MANUAL</i>		
14	ST-03-A-07 BEACONSIDE STAFFORD MARSTON GATE	DETACHED & SEMI-DETACHED	STAFFORDSHIRE
	Edge of Town Residential Zone Total No of Dwellings: 248 Survey date: <i>WEDNESDAY</i> 22/11/17 Survey Type: <i>MANUAL</i>		
15	WS-03-A-08 ROUNDSTONE LANE ANGMERING	MIXED HOUSES	WEST SUSSEX
	Edge of Town Residential Zone Total No of Dwellings: 180 Survey date: <i>THURSDAY</i> 19/04/18 Survey Type: <i>MANUAL</i>		
16	WS-03-A-18 LONDON ROAD HASOCKS	MIXED HOUSES & FLATS	WEST SUSSEX
	Neighbourhood Centre (PPS6 Local Centre) Village Total No of Dwellings: 156 Survey date: <i>MONDAY</i> 15/05/23 Survey Type: <i>MANUAL</i>		

*This section provides a list of all survey sites and days in the selected set. For each individual survey site, it displays a unique site reference code and site address, the selected trip rate calculation parameter and its value, the day of the week and date of each survey, and whether the survey was a manual classified count or an ATC count.*

MANUALLY DESELECTED SURVEYS

Site Ref	Survey Date	Reason for Deselection
SF-03-A-09	24/06/21	During COVID-19
WS-03-A-12	16/06/21	During COVID-19
WS-03-A-13	23/06/21	During COVID-19



TRIP RATE for Land Use 03 - RESIDENTIAL/A - HOUSES PRIVATELY OWNED  
 TOTAL VEHICLES  
 Calculation factor: 1 DWELLS  
 BOLD print indicates peak (busiest) period

Time Range	ARRIVALS			DEPARTURES			TOTALS		
	No. Days	Ave. DWELLS	Trip Rate	No. Days	Ave. DWELLS	Trip Rate	No. Days	Ave. DWELLS	Trip Rate
00:00 - 01:00									
01:00 - 02:00									
02:00 - 03:00									
03:00 - 04:00									
04:00 - 05:00									
05:00 - 06:00									
06:00 - 07:00									
07:00 - 08:00	16	200	0.090	16	200	0.285	16	200	0.375
08:00 - 09:00	16	200	0.129	16	200	0.366	16	200	0.495
09:00 - 10:00	16	200	0.147	16	200	0.188	16	200	0.335
10:00 - 11:00	16	200	0.140	16	200	0.159	16	200	0.299
11:00 - 12:00	16	200	0.148	16	200	0.159	16	200	0.307
12:00 - 13:00	16	200	0.155	16	200	0.164	16	200	0.319
13:00 - 14:00	16	200	0.152	16	200	0.152	16	200	0.304
14:00 - 15:00	16	200	0.168	16	200	0.189	16	200	0.357
15:00 - 16:00	16	200	0.239	16	200	0.173	16	200	0.412
16:00 - 17:00	16	200	0.257	16	200	0.163	16	200	0.420
17:00 - 18:00	16	200	0.323	16	200	0.143	16	200	0.466
18:00 - 19:00	16	200	0.273	16	200	0.140	16	200	0.413
19:00 - 20:00									
20:00 - 21:00									
21:00 - 22:00									
22:00 - 23:00									
23:00 - 24:00									
Total Rates:			2.221			2.281			4.502

*This section displays the trip rate results based on the selected set of surveys and the selected count type (shown just above the table). It is split by three main columns, representing arrivals trips, departures trips, and total trips (arrivals plus departures). Within each of these main columns are three sub-columns. These display the number of survey days where count data is included (per time period), the average value of the selected trip rate calculation parameter (per time period), and the trip rate result (per time period). Total trip rates (the sum of the column) are also displayed at the foot of the table.*

*To obtain a trip rate, the average (mean) trip rate parameter value (TRP) is first calculated for all selected survey days that have count data available for the stated time period. The average (mean) number of arrivals, departures or totals (whichever applies) is also calculated (COUNT) for all selected survey days that have count data available for the stated time period. Then, the average count is divided by the average trip rate parameter value, and multiplied by the stated calculation factor (shown just above the table and abbreviated here as FACT). So, the method is: COUNT/TRP\*FACT. Trip rates are then rounded to 3 decimal places.*

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#### Parameter summary

Trip rate parameter range selected:	152 - 250 (units: )
Survey date range:	01/01/15 - 15/05/23
Number of weekdays (Monday-Friday):	23
Number of Saturdays:	0
Number of Sundays:	0
Surveys automatically removed from selection:	5
Surveys manually removed from selection:	0

*This section displays a quick summary of some of the data filtering selections made by the TRICS® user. The trip rate calculation parameter range of all selected surveys is displayed first, followed by the range of minimum and maximum survey dates selected by the user. Then, the total number of selected weekdays and weekend days in the selected set of surveys are shown. Finally, the number of survey days that have been manually removed from the selected set outside of the standard filtering procedure are displayed.*

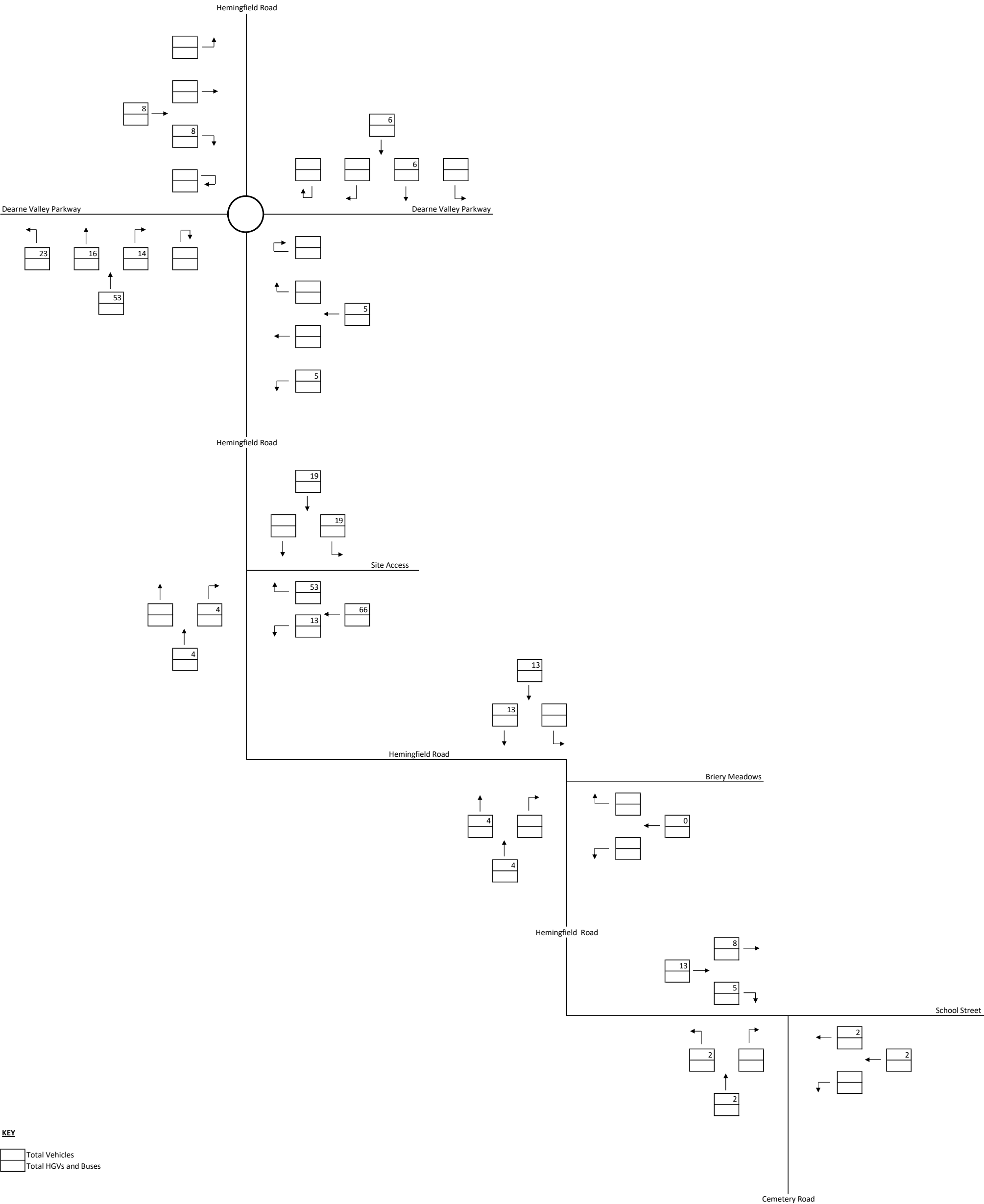
# **APPENDIX BGH 13**



DEVELOPMENT GENERATED VEHICULAR FLOWS

PROPOSED RESIDENTIAL DEVELOPMENT, HEMINGFIELD, BARNSELEY

AM PEAK HOUR



**KEY**

Total Vehicles

Total HGVs and Buses

**BRYAN G HALL**

CONSULTING CIVIL & TRANSPORTATION PLANNING ENGINEERS

**Client:** Ptarmigan Land North Ltd

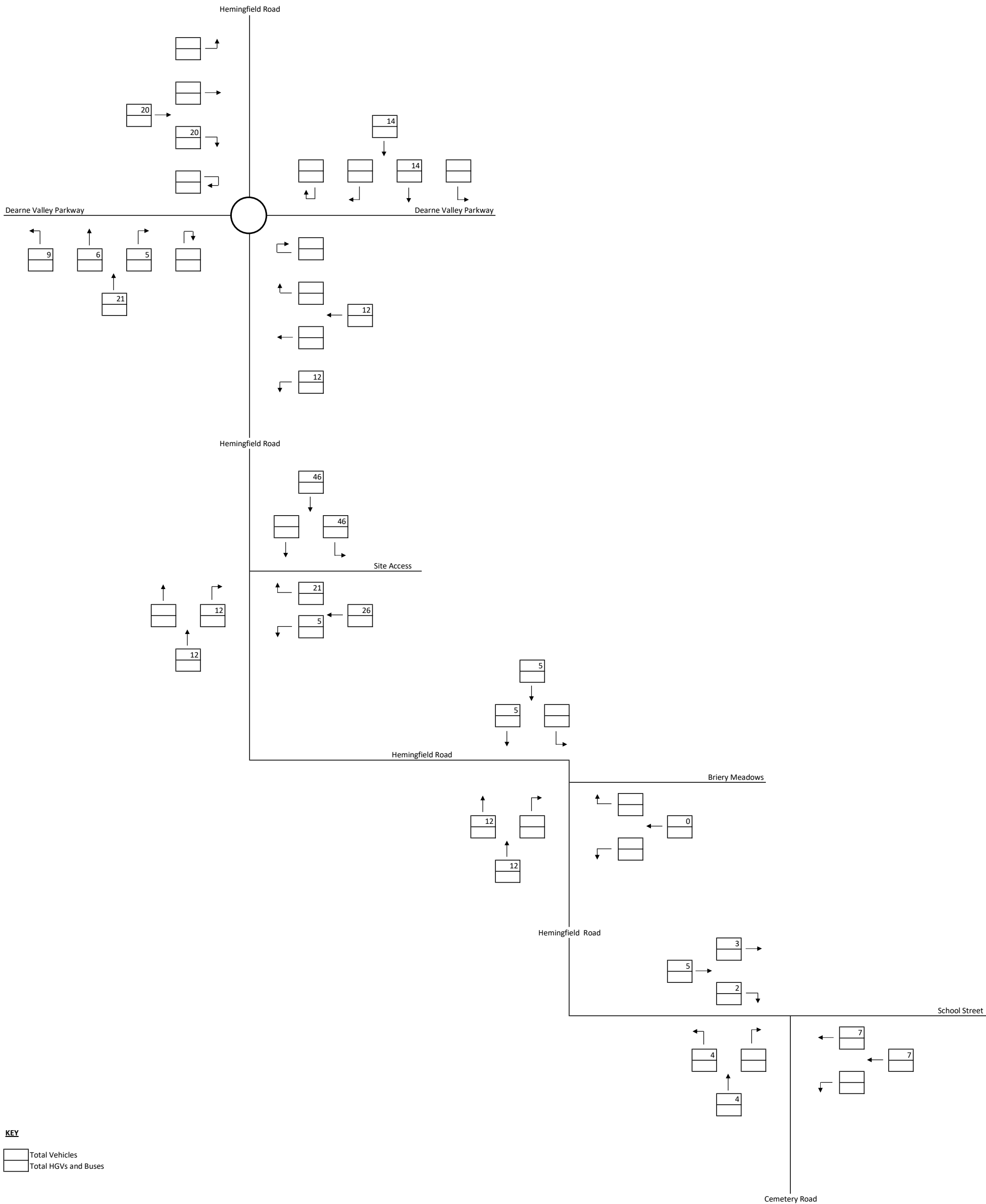
**Project:** Hemingfield, Barnsley

**Job Number:** 23-160

**Prepared by:** Phoebe Pitcher

**Checked by:** Robbie Donaldson

DEVELOPMENT GENERATED VEHICULAR FLOWS  
PROPOSED RESIDENTIAL DEVELOPMENT, HEMINGFIELD, BARNSELEY  
PM PEAK HOUR



**BRYAN G HALL**  
CONSULTING CIVIL & TRANSPORTATION PLANNING ENGINEERS

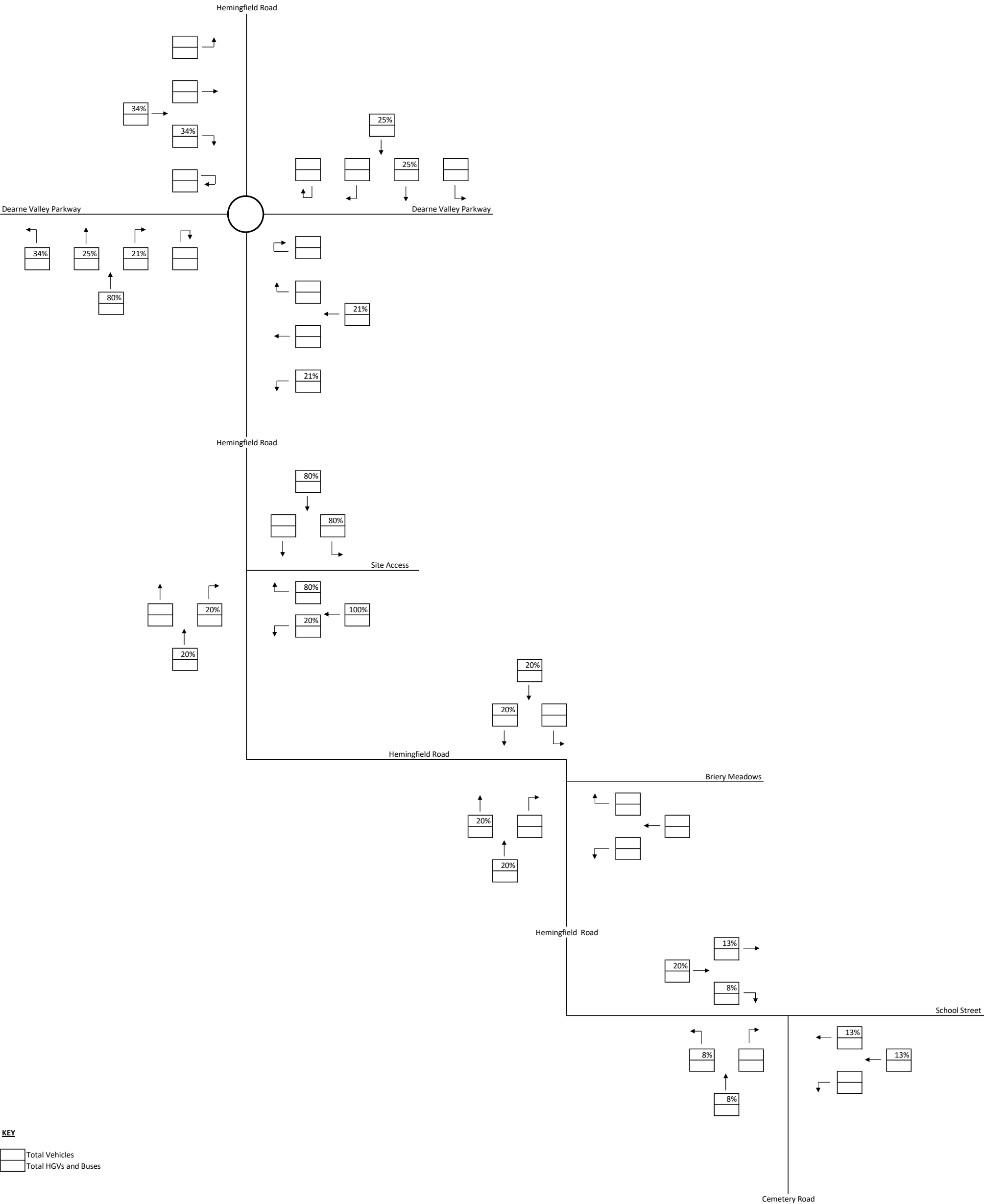
**Client:** Ptarmigan Land North Ltd  
**Project:** Hemingfield, Barnsley  
**Job Number:** 23-160  
**Prepared by:** Phoebe Pitcher  
**Checked by:** Robbie Donaldson



# **APPENDIX BGH 14**

TRIP DISTRIBUTION

PROPOSED RESIDENTIAL DEVELOPMENT, HEMINGFIELD, BARNSELEY





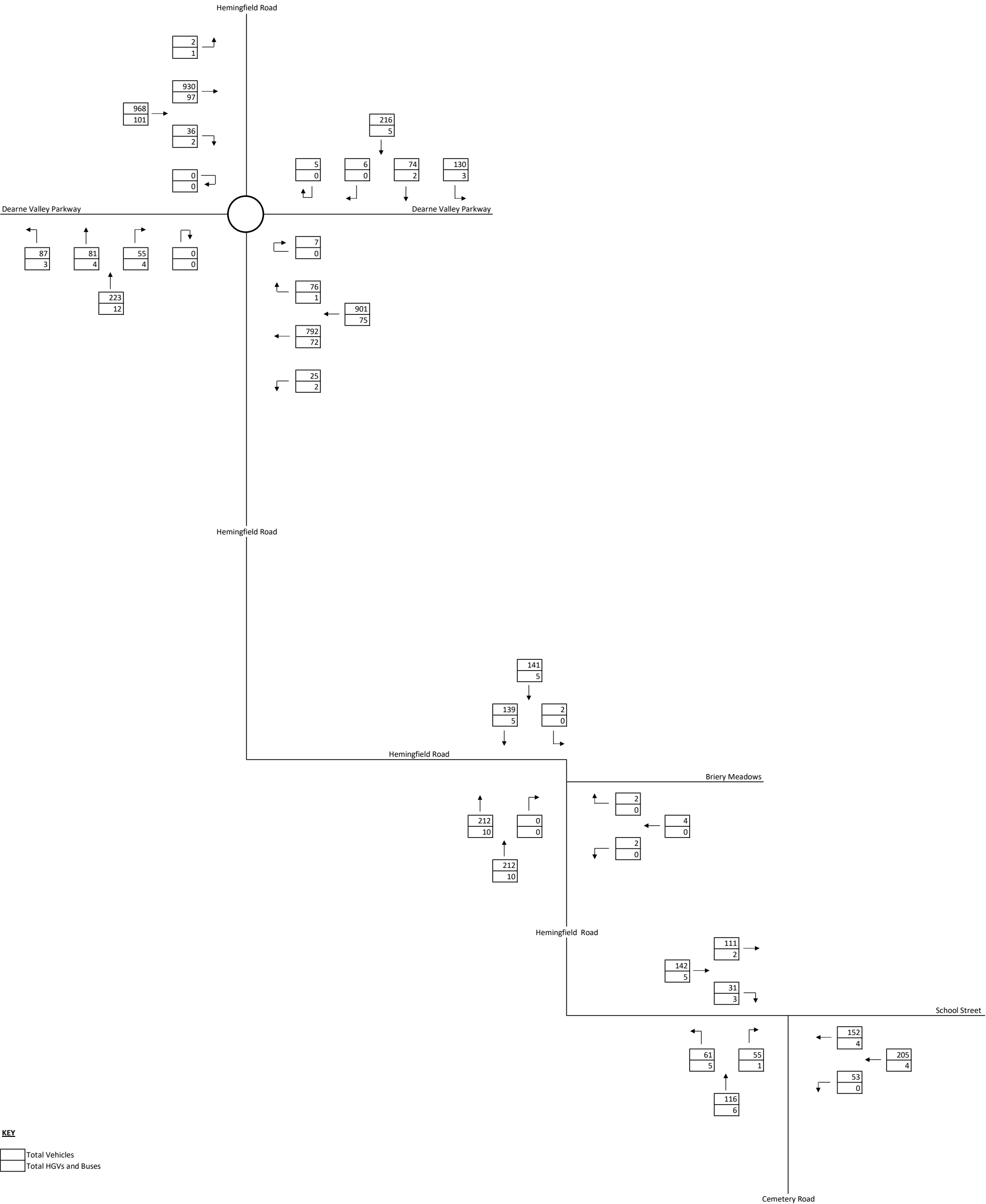
# **APPENDIX BGH 15**

2029 GROWTHED VEHICULAR FLOWS

PROPOSED RESIDENTIAL DEVELOPMENT, HEMINGFIELD, BARNSELEY

8:00am - 9:00am

AM PEAK HOUR



KEY

Total Vehicles

Total HGVs and Buses

**BRYAN G HALL**

CONSULTING CIVIL & TRANSPORTATION PLANNING ENGINEERS

Client: Ptarmigan Land North Ltd

Project: Hemingfield, Barnsley

Job Number: 23-160

Prepared by: Phoebe Pitcher

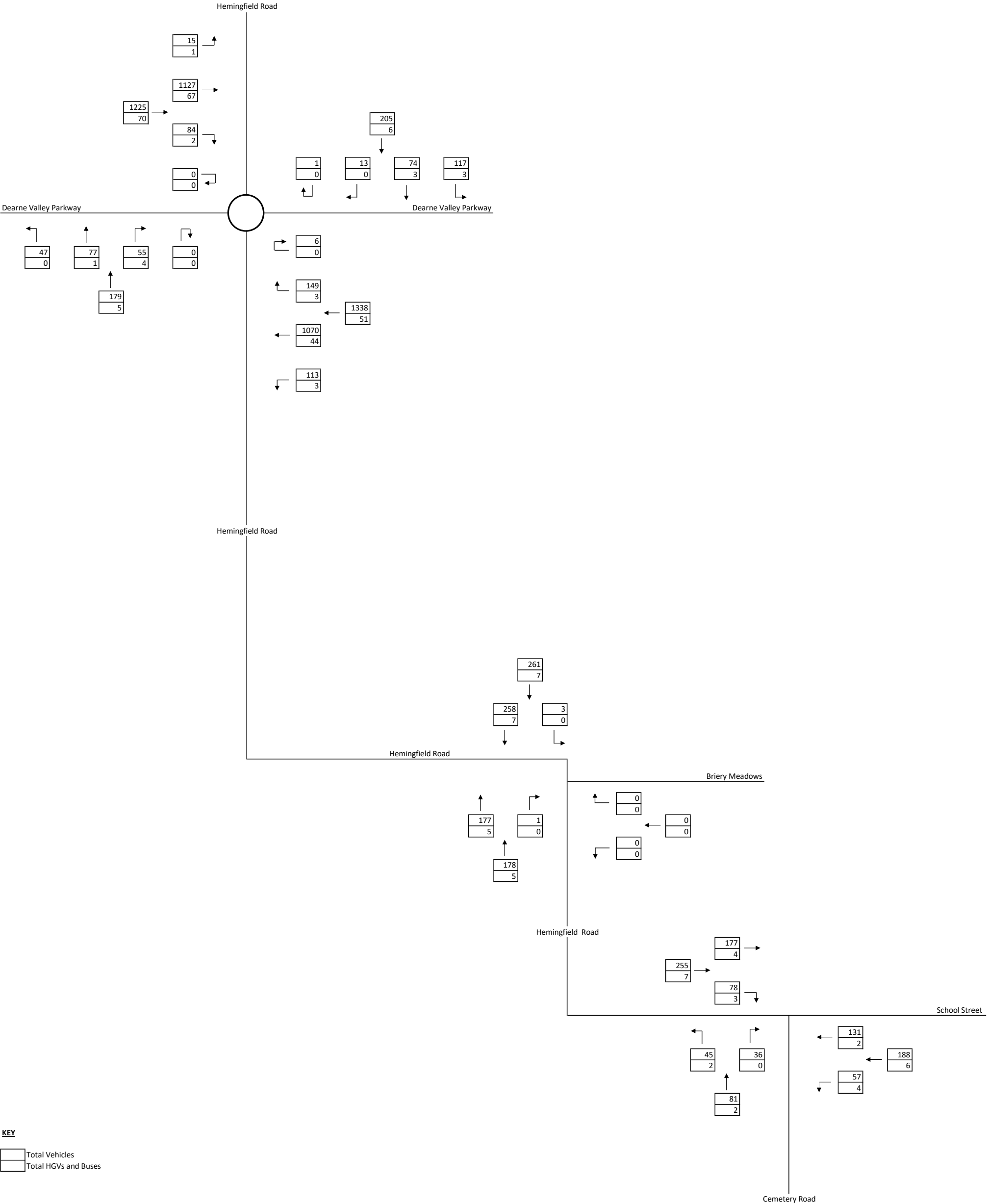
Checked by: Robbie Donaldson

2029 GROWTHED VEHICULAR FLOWS

PROPOSED RESIDENTIAL DEVELOPMENT, HEMINGFIELD, BARNSLEY

4:00pm - 5:00pm

PM PEAK HOUR



**KEY**

Total Vehicles

Total HGVs and Buses

**BRYAN G HALL**

CONSULTING CIVIL & TRANSPORTATION PLANNING ENGINEERS

**Client:** Ptarmigan Land North Ltd

**Project:** Hemingfield, Barnsley

**Job Number:** 23-160

**Prepared by:** Phoebe Pitcher

**Checked by:** Robbie Donaldson



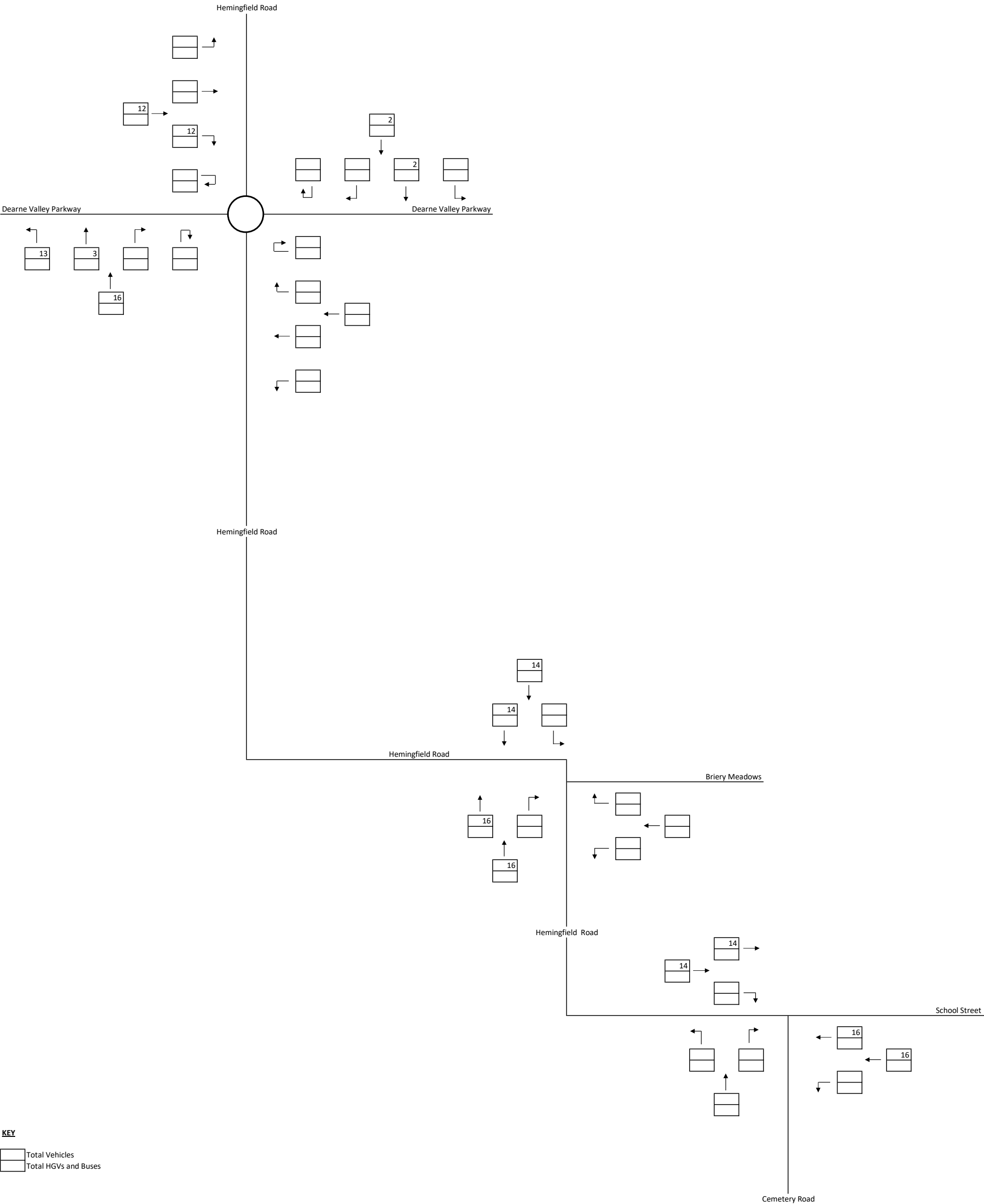
# **APPENDIX BGH 16**

COMMITTED DEVELOPMENT FLOWS - FORMER WOMBWELL SCHOOL SITE (APPLICATION REF: 2019/0089)

PROPOSED, RESIDENTIAL DEVELOPMENT HEMINGFIELD, BARNSELEY

AM PEAK

FROM AECOM TRANSPORT ASSESSMENT DATED 11/01/2019 - APPENDIX D, DIAGRAM 12



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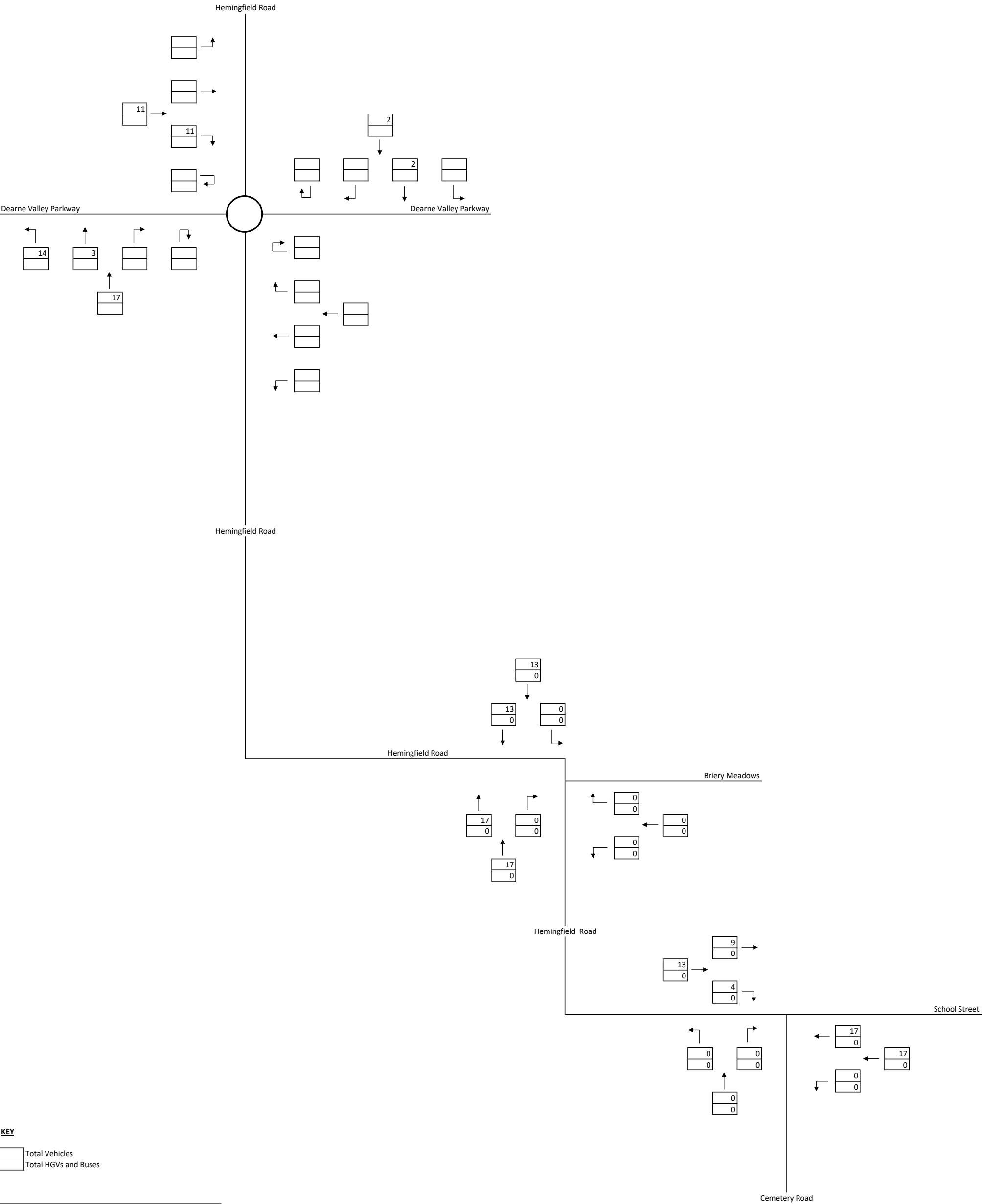
**Client:** Ptarmigan Land North Ltd  
**Project:** Hemingfield, Barnsley  
**Job Number:** 23-160  
**Prepared by:** Phoebe Pitcher  
**Checked by:** Robbie Donaldson

COMMITTED DEVELOPMENT FLOWS - FORMER WOMBWELL SCHOOL SITE (APPLICATION REF: 2019/0089)

PROPOSED, RESIDENTIAL DEVELOPMENT HEMINGFIELD, BARNSELEY

PM PEAK

FROM AECOM TRANSPORT ASSESSMENT DATED 11/01/2019 - APPENDIX D, DIAGRAM 12



**BRYAN G HALL**  
CONSULTING CIVIL & TRANSPORTATION PLANNING ENGINEERS

**Client:** Ptarmigan Land North Ltd  
**Project:** Hemingfield, Barnsley  
**Job Number:** 23-160  
**Prepared by:** Phoebe Pitcher  
**Checked by:** Robbie Donaldson



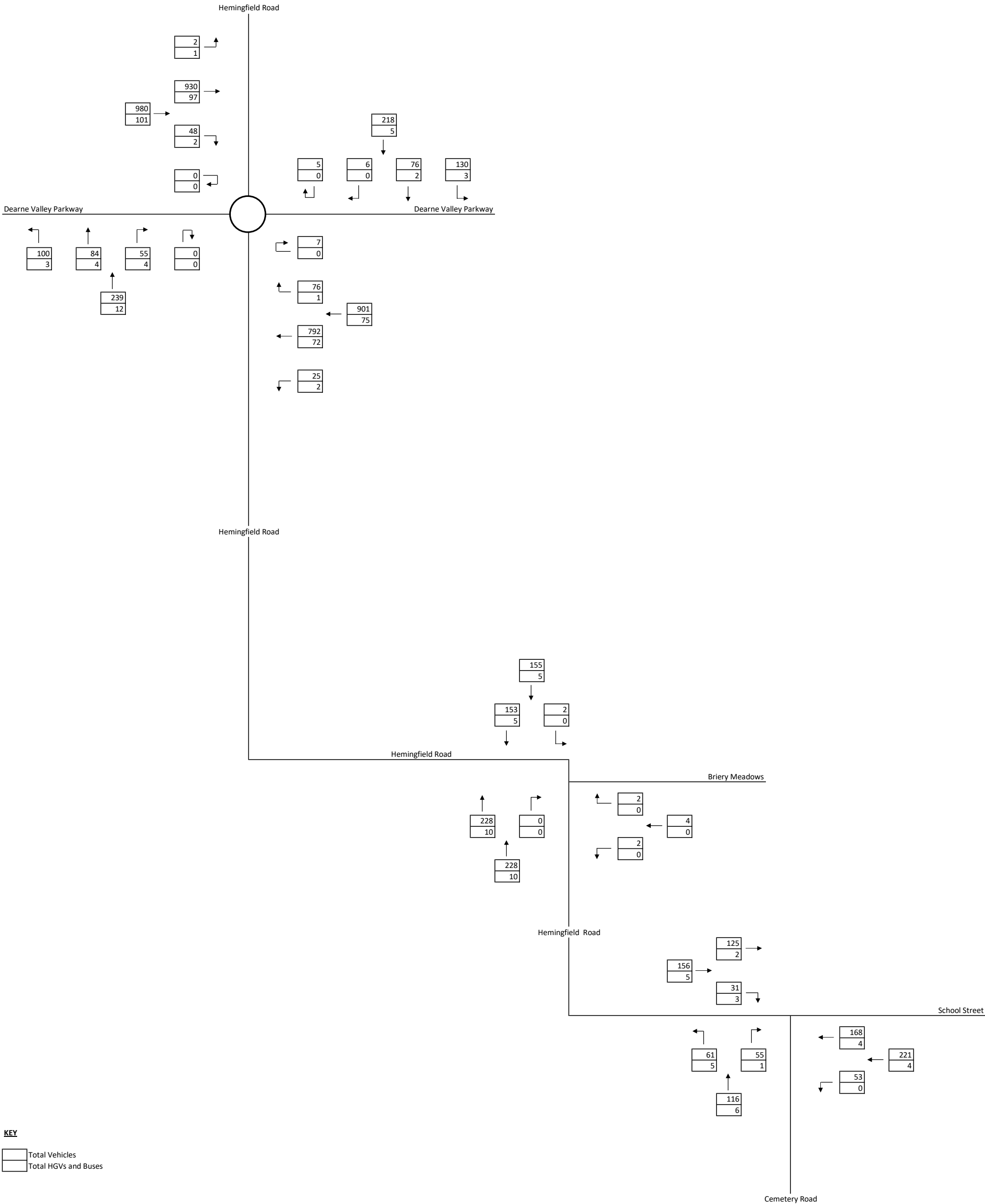
# **APPENDIX BGH 17**

2029 BASE VEHICULAR FLOWS

PROPOSED RESIDENTIAL DEVELOPMENT, HEMINGFIELD, BARNSELEY

8:00am - 9:00am

AM PEAK HOUR



**BRYAN G HALL**  
CONSULTING CIVIL & TRANSPORTATION PLANNING ENGINEERS

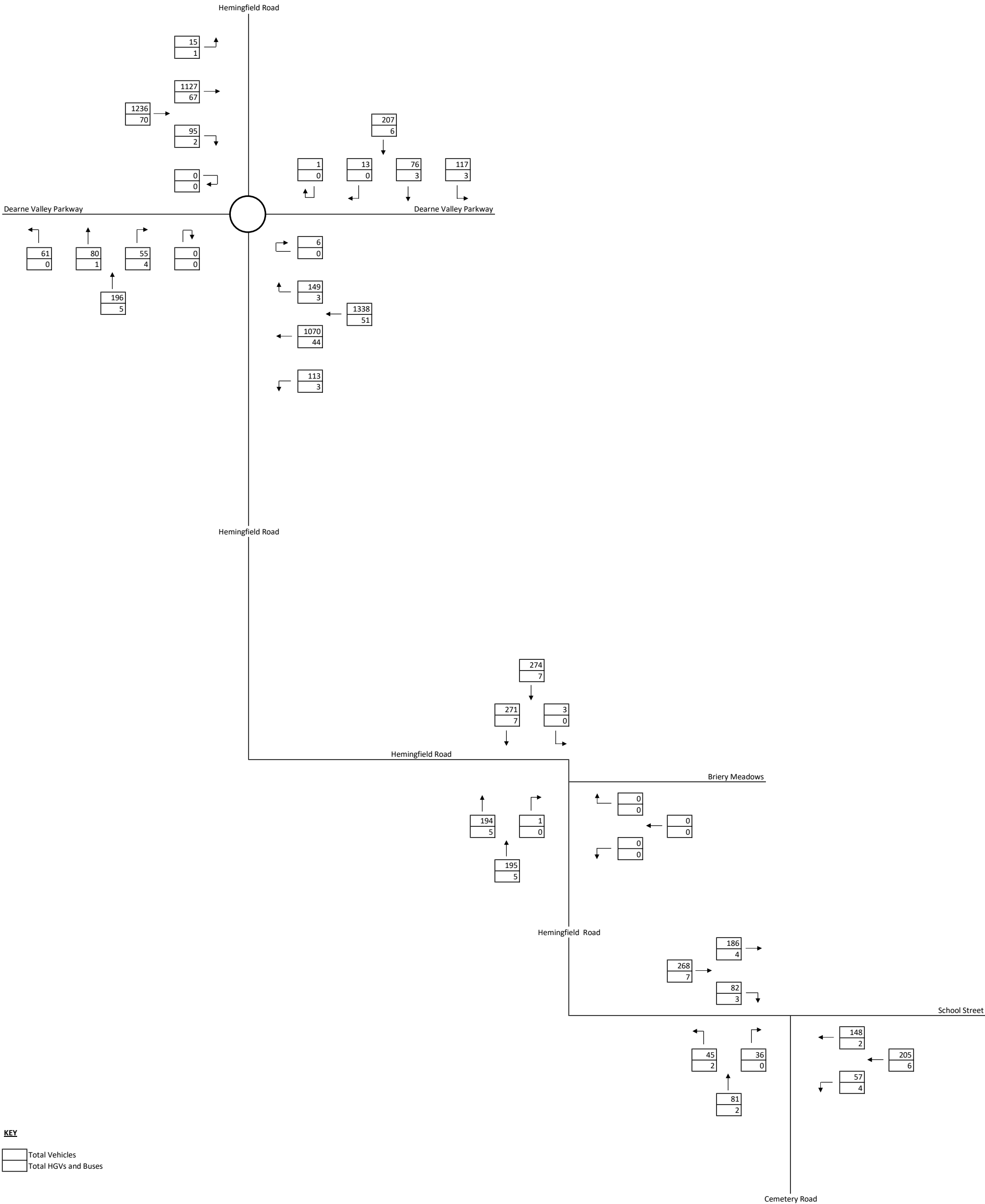
**Client:** Ptarmigan Land North Ltd  
**Project:** Hemingfield, Barnsley  
**Job Number:** 23-160  
**Prepared by:** Phoebe Pitcher  
**Checked by:** Robbie Donaldson

2029 BASE VEHICULAR FLOWS

PROPOSED RESIDENTIAL DEVELOPMENT, HEMINGFIELD, BARNSELEY

4:00pm - 5:00pm

PM PEAK HOUR



**BRYAN G HALL**  
CONSULTING CIVIL & TRANSPORTATION PLANNING ENGINEERS

**Client:** Ptarmigan Land North Ltd  
**Project:** Hemingfield, Barnsley  
**Job Number:** 23-160  
**Prepared by:** Phoebe Pitcher  
**Checked by:** Robbie Donaldson



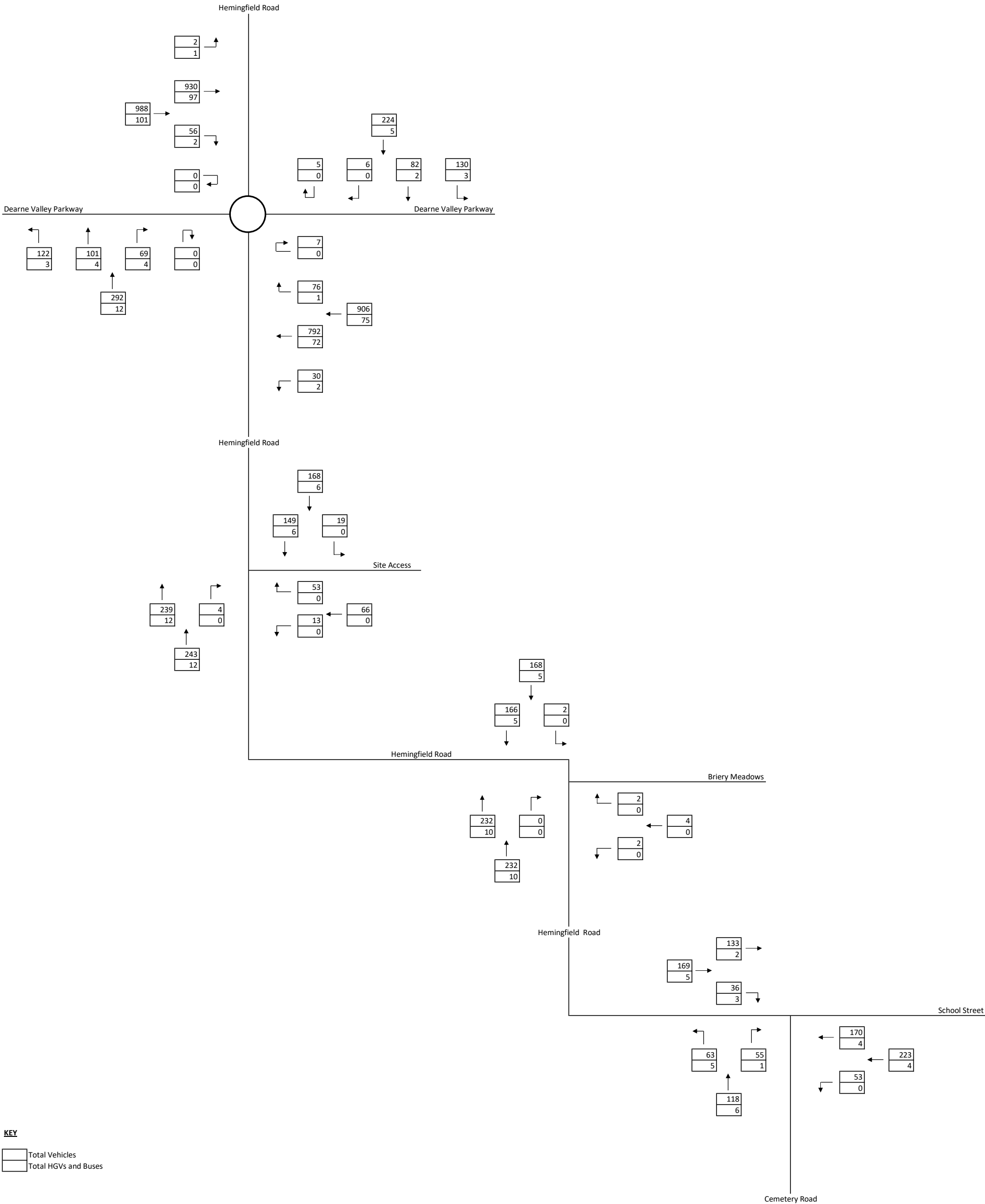
# **APPENDIX BGH 18**

2029 PREDICTED VEHICULAR FLOWS

PROPOSED RESIDENTIAL DEVELOPMENT, HEMINGFIELD, BARNSLEY

8:00am - 9:00am

AM PEAK HOUR



**BRYAN G HALL**  
CONSULTING CIVIL & TRANSPORTATION PLANNING ENGINEERS

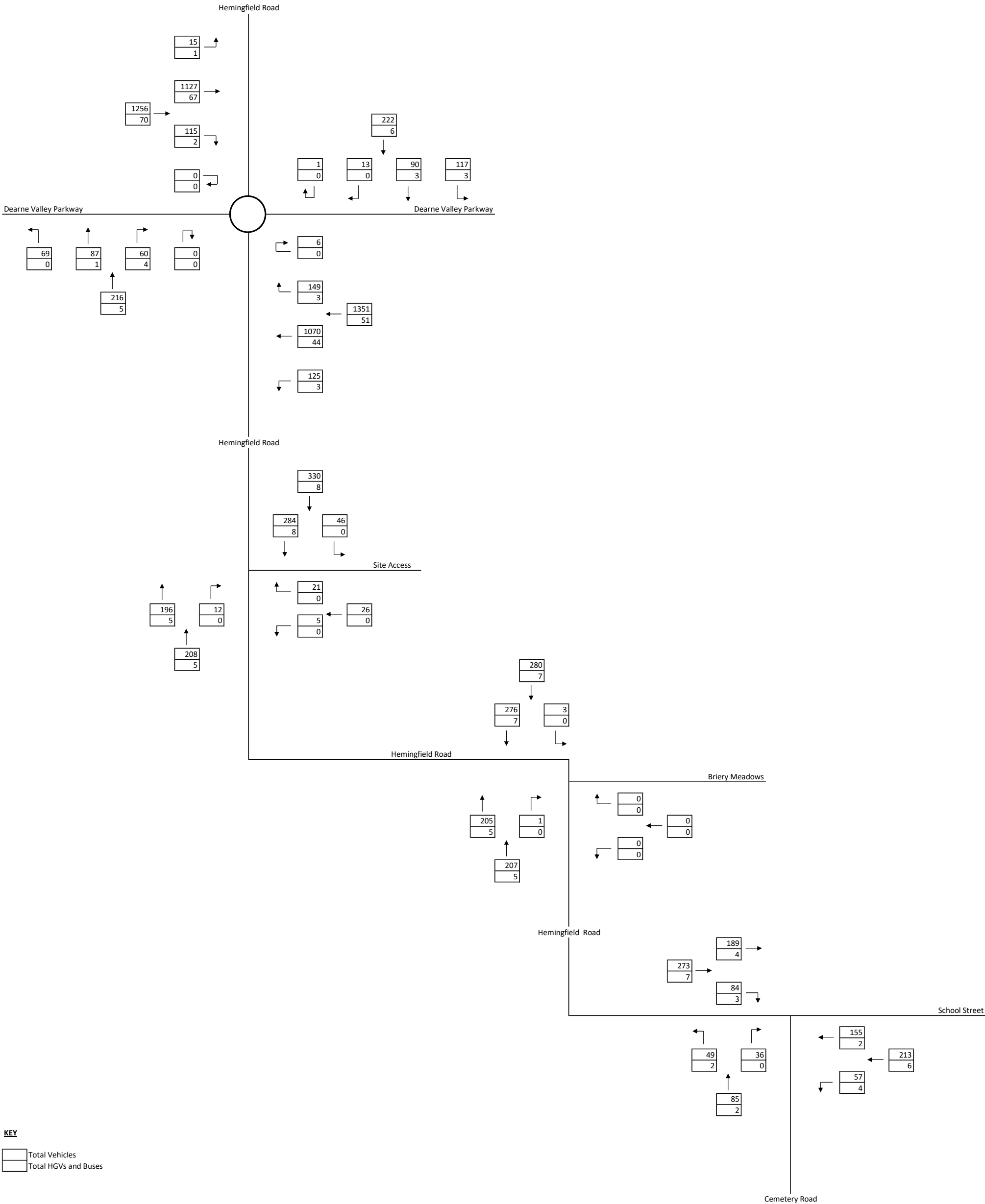
Client: Ptarmigan Land North Ltd  
Project: Hemingfield, Barnsley  
Job Number: 23-160  
Prepared by: Phoebe Pitcher  
Checked by: Robbie Donaldson

2029 PREDICTED VEHICULAR FLOWS

PROPOSED RESIDENTIAL DEVELOPMENT, HEMINGFIELD, BARNSLEY

4:00pm - 5:00pm

PM PEAK HOUR



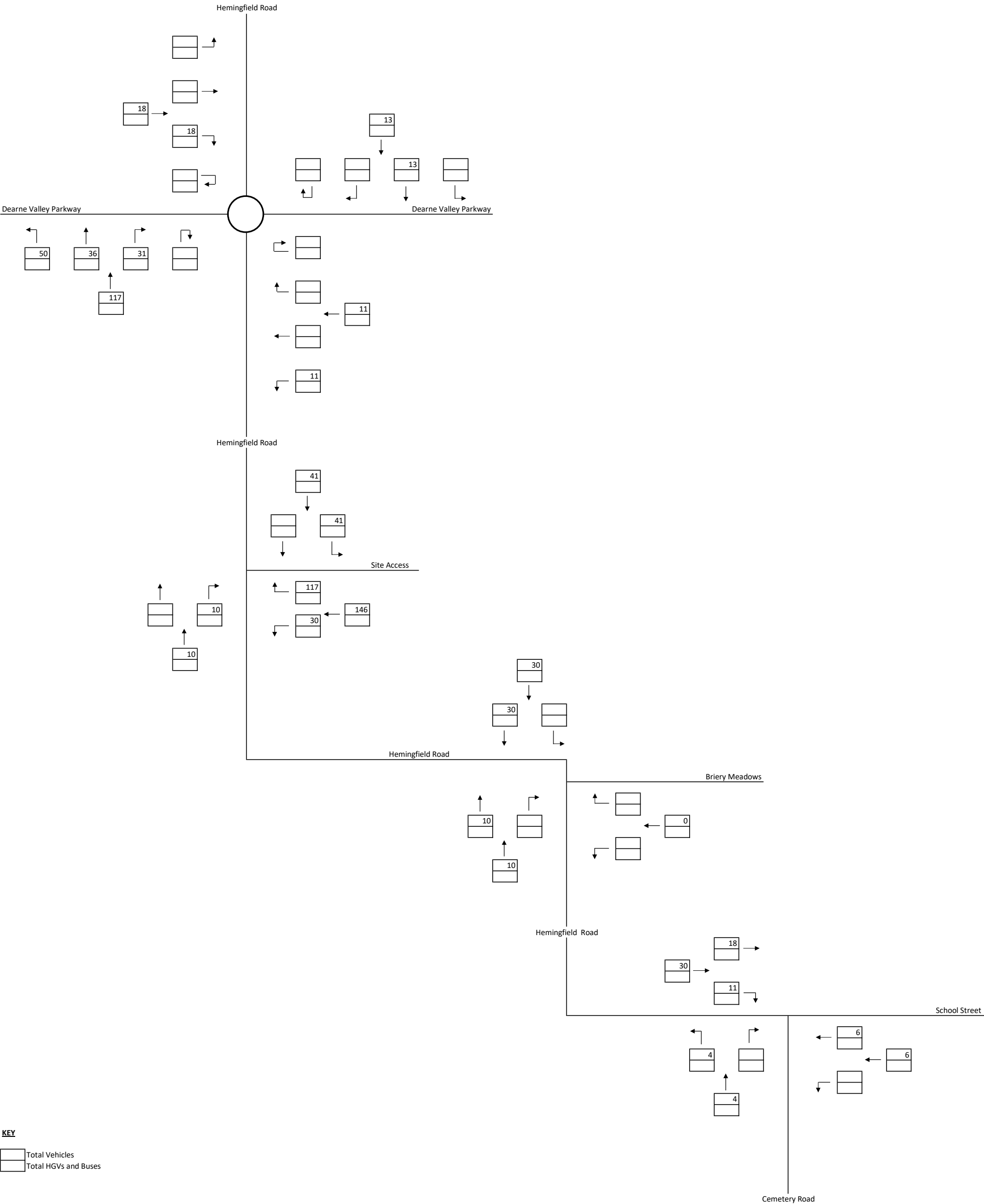
**BRYAN G HALL**  
CONSULTING CIVIL & TRANSPORTATION PLANNING ENGINEERS

Client:	Ptarmigan Land North Ltd
Project:	Hemingfield, Barnsley
Job Number:	23-160
Prepared by:	Phoebe Pitcher
Checked by:	Robbie Donaldson



# **APPENDIX BGH 19**

SENSITIVITY TEST - DEVELOPMENT GENERATED VEHICULAR FLOWS FOR 400 DWELLINGS  
PROPOSED RESIDENTIAL DEVELOPMENT, HEMINGFIELD, BARNSELEY  
AM PEAK HOUR



**KEY**

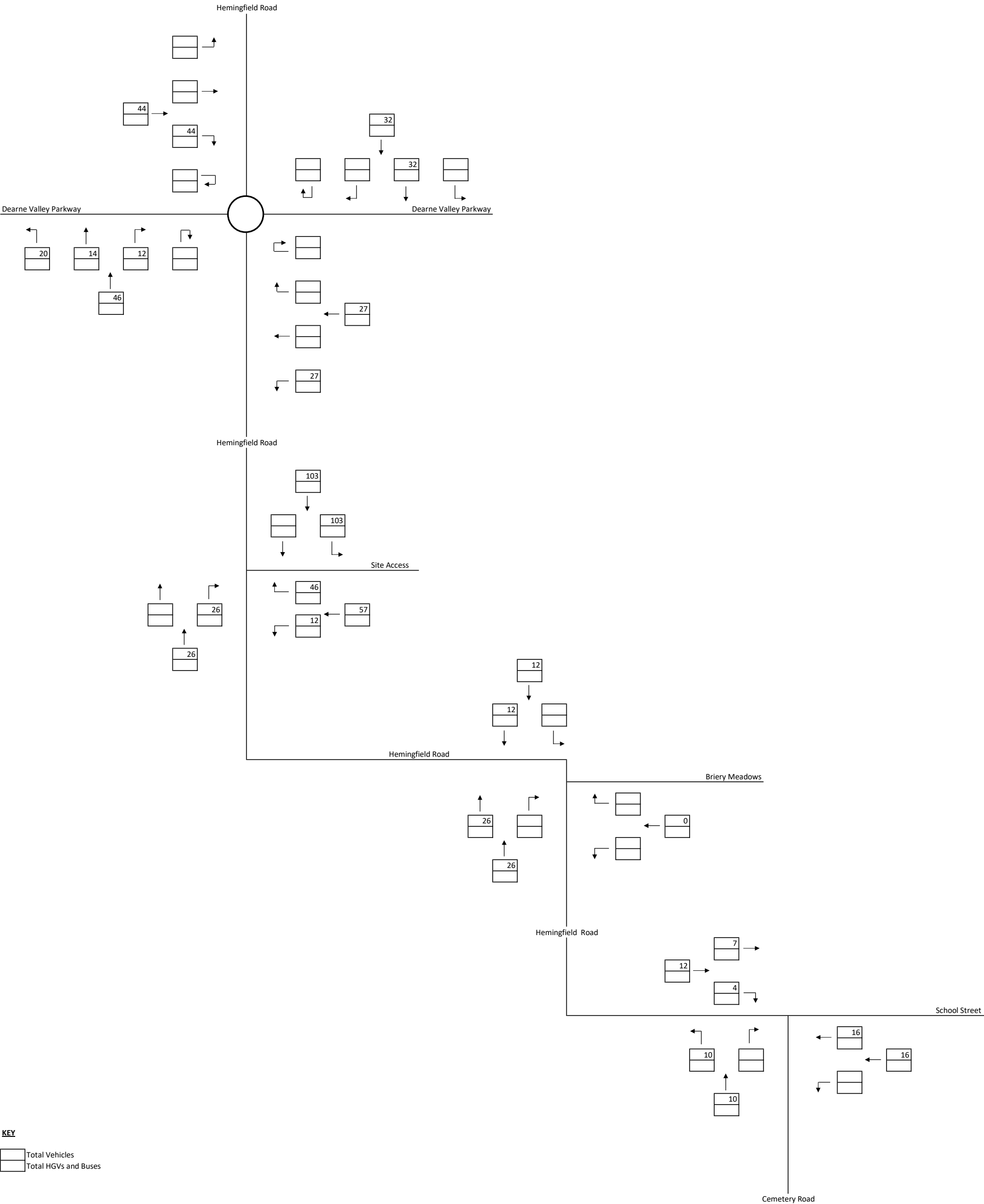
Total Vehicles

Total HGVs and Buses

**BRYAN G HALL**  
CONSULTING CIVIL & TRANSPORTATION PLANNING ENGINEERS

**Client:** Ptarmigan Land North Ltd  
**Project:** Hemingfield, Barnsley  
**Job Number:** 23-160  
**Prepared by:** Phoebe Pitcher  
**Checked by:** Robbie Donaldson

SENSITIVITY TEST - DEVELOPMENT GENERATED VEHICULAR FLOWS FOR 400 DWELLINGS  
PROPOSED RESIDENTIAL DEVELOPMENT, HEMINGFIELD, BARNSELEY  
PM PEAK HOUR



**BRYAN G HALL**  
CONSULTING CIVIL & TRANSPORTATION PLANNING ENGINEERS

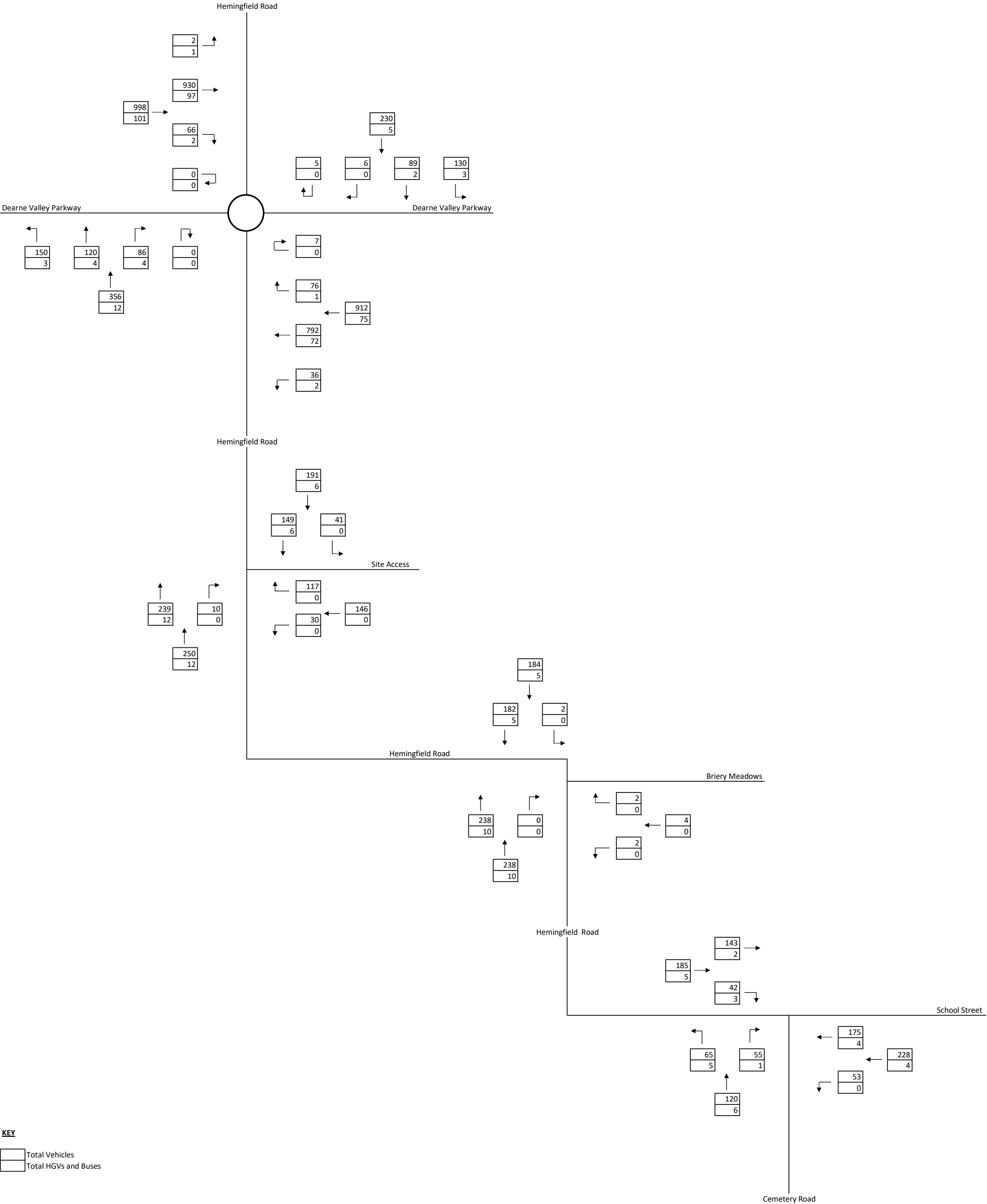
**Client:** Ptarmigan Land North Ltd  
**Project:** Hemingfield, Barnsley  
**Job Number:** 23-160  
**Prepared by:** Phoebe Pitcher  
**Checked by:** Robbie Donaldson

# **APPENDIX BGH 20**



2029 PREDICTED SENSITIVITY TEST VEHICULAR FLOWS (400 DWELLINGS)  
PROPOSED RESIDENTIAL DEVELOPMENT, HEMINGFIELD, BARNSELEY

8:00am - 9:00am  
AM PEAK HOUR



**KEY**

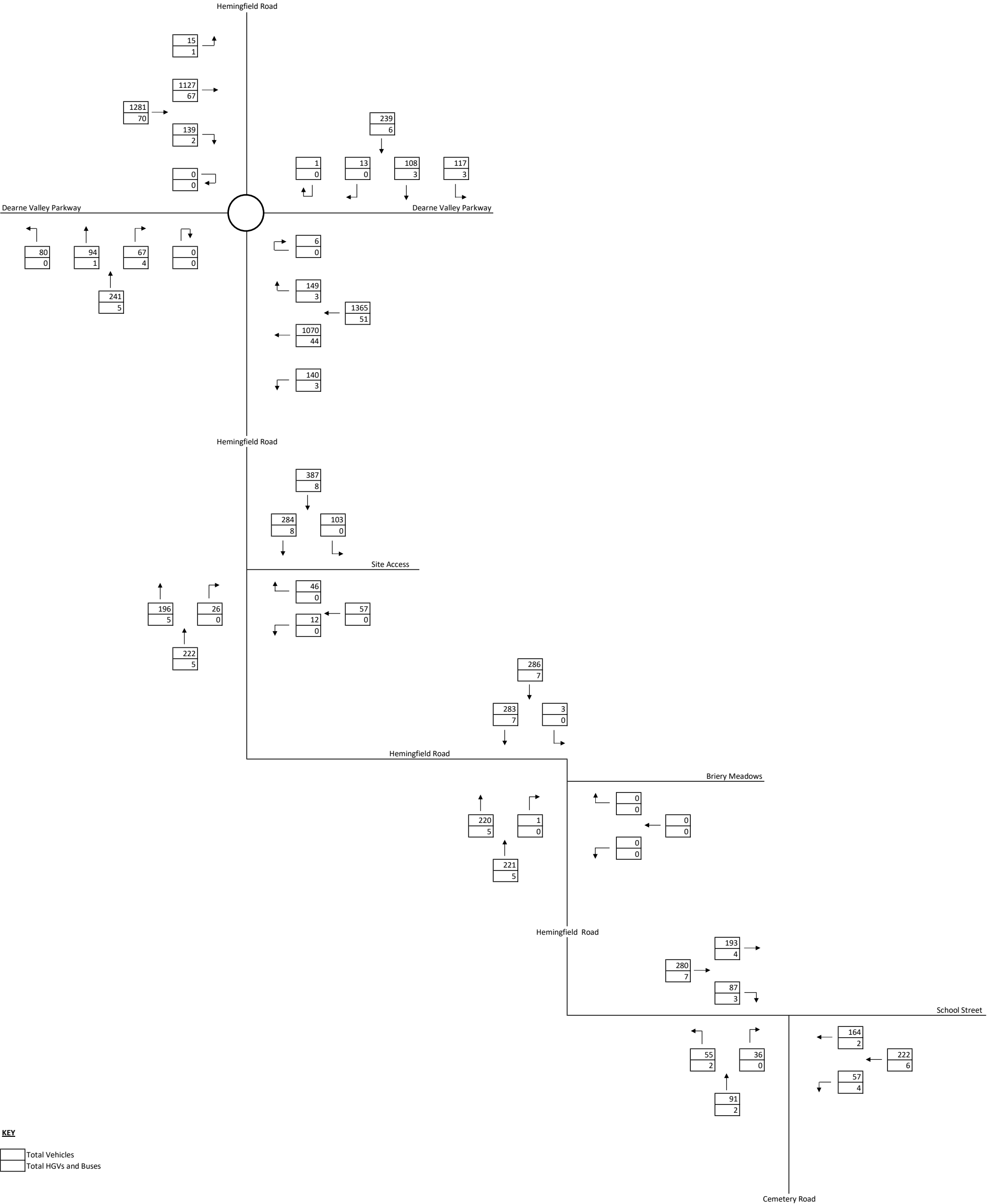
- Total Vehicles
- Total HGVs and Buses

**BRYAN G HALL**  
CONSULTING CIVIL & TRANSPORTATION PLANNING ENGINEERS

**Client:** Ptarmigan Land North Ltd  
**Project:** Hemingfield, Barnsley  
**Job Number:** 23-160  
**Prepared by:** Phoebe Pitcher  
**Checked by:** Robbie Donaldson

2029 PREDICTED SENSITIVITY TEST VEHICULAR FLOWS (400 DWELLINGS)  
PROPOSED RESIDENTIAL DEVELOPMENT, HEMINGFIELD, BARNSELEY

4:00pm - 5:00pm  
PM PEAK HOUR



**KEY**

- Total Vehicles
- Total HGVs and Buses

**BRYAN G HALL**  
CONSULTING CIVIL & TRANSPORTATION PLANNING ENGINEERS

**Client:** Ptarmigan Land North Ltd  
**Project:** Hemingfield, Barnsley  
**Job Number:** 23-160  
**Prepared by:** Phoebe Pitcher  
**Checked by:** Robbie Donaldson

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