

Technical Annexes 11 – Air Quality

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Technical Annex 11A DMRB Input Variables

Annex 11 A

DMRB Input Variables

Table 11 A .1 DMRB Background Concentrations^(a)

| Variable | Value | Units |
|--|-------|--------------------|
| Background concentration of NO _x | 7.6 | µg m ⁻³ |
| Background concentration of NO ₂ | 6.2 | µg m ⁻³ |
| Background concentration of PM ₁₀ | 14.8 | µg m ⁻³ |

(a) Source: Background concentrations derived from the National Air Quality Archive the year 2004, www.airquality.co.uk

Table 11 A .2 DMRB Input variables for the 2011 Assessment Year

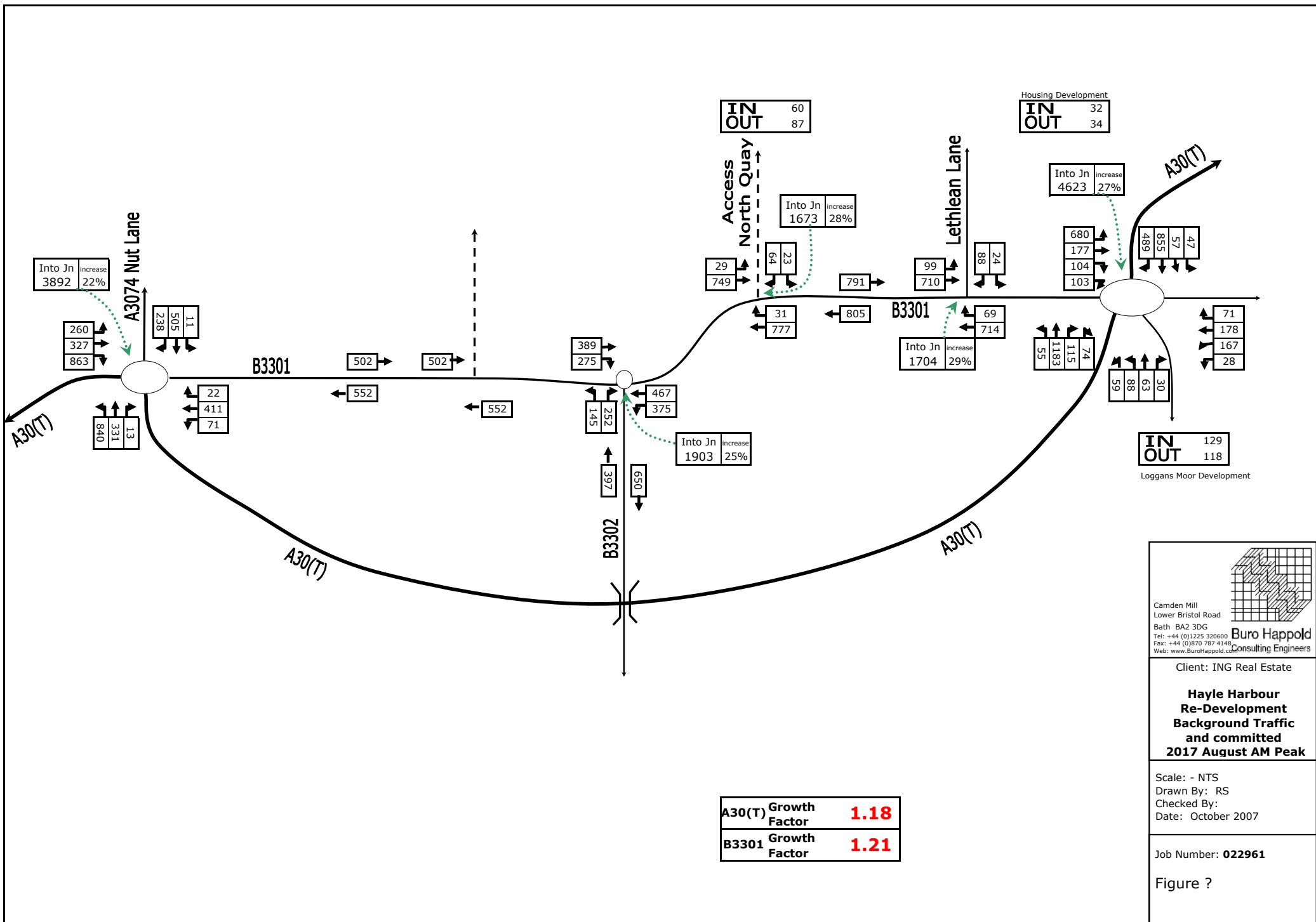
| Street Name* | Scenario | AADT (combined, veh/day) | Annual average speed kph | Road type (A,B,C,D) | Total % LDV | Total % HDV |
|-----------------|---------------------|--------------------------|--------------------------|---------------------|-------------|-------------|
| Griggs Hill | Without Development | 8775 | 95.6 | B | 96.80 | 3.20 |
| Carnsew Road | | 10725 | 95.6 | | 98.3 | 1.7 |
| Penpole Terrace | | 14315 | 48.3 | B | 98.00 | 2.00 |
| Hayle Terrace | | 14750 | 48.3 | B | 98.00 | 2.00 |
| Fore Street | | 15680 | 48.3 | B | 96.70 | 3.30 |
| Foundry Hill | | 9630 | 95.3 | | 98.3 | 1.7 |
| Griggs Hill | With Development | 11345 | 95.6 | B | 96.80 | 3.20 |
| Carnsew Road | | 14075 | 95.6 | B | 98.3 | 1.7 |
| Penpole Terrace | | 17775 | 48.3 | B | 98.00 | 2.00 |
| Hayle Terrace | | 17795 | 48.3 | B | 98.00 | 2.00 |
| Fore Street | | 18753 | 48.3 | B | 96.70 | 3.30 |
| Foundry Hill | | 10430 | 95.3 | | 98.3 | 1.7 |

Table 11 A .3 DMRB Input variables for the 2017 Assessment Year

| Street Name* | Scenario | AADT (combined, veh/day) | Annual average speed (km/h)** | Road type (A,B,C,D) | Total % LDV | Total % HDV |
|-----------------|---------------------|--------------------------|-------------------------------|---------------------|-------------|-------------|
| Griggs Hill | Without Development | 9545 | 95.6 | B | 97.0 | 3.2 |
| Carnsew Road | | 11640 | 48.3 | B | 98.3 | 1.7 |
| Penpole Terrace | | 15510 | 48.3 | B | 98.0 | 2.0 |
| Hayle Terrace | | 15955 | 48.3 | B | 98.0 | 2.0 |
| Fore Street | | 16955 | 48.3 | B | 96.7 | 3.3 |
| Foundry Hill | | 10470 | 95.6 | | 98.3 | 1.7 |
| Griggs Hill | With Development | 12115 | 95.6 | B | 97.0 | 3.2 |

| | | | | | | |
|-----------------|--|-------|------|---|------|-----|
| Carnsew Road | | 15000 | 48.3 | B | 98.3 | 1.7 |
| Penpole Terrace | | 18970 | 48.3 | B | 98.0 | 2.0 |
| Hayle Terrace | | 19000 | 48.3 | B | 98.0 | 2.0 |
| Fore Street | | 20010 | 48.3 | B | 96.7 | 3.3 |
| Foundry Hill | | 11270 | 95.6 | | 98.3 | 1.7 |

AADT values were derived from AM peak traffic counts assuming peak flow is 10% of 24 hour flow.



| | |
|----------------------|-------------|
| A30(T) Growth Factor | 1.18 |
| B3301 Growth Factor | 1.21 |

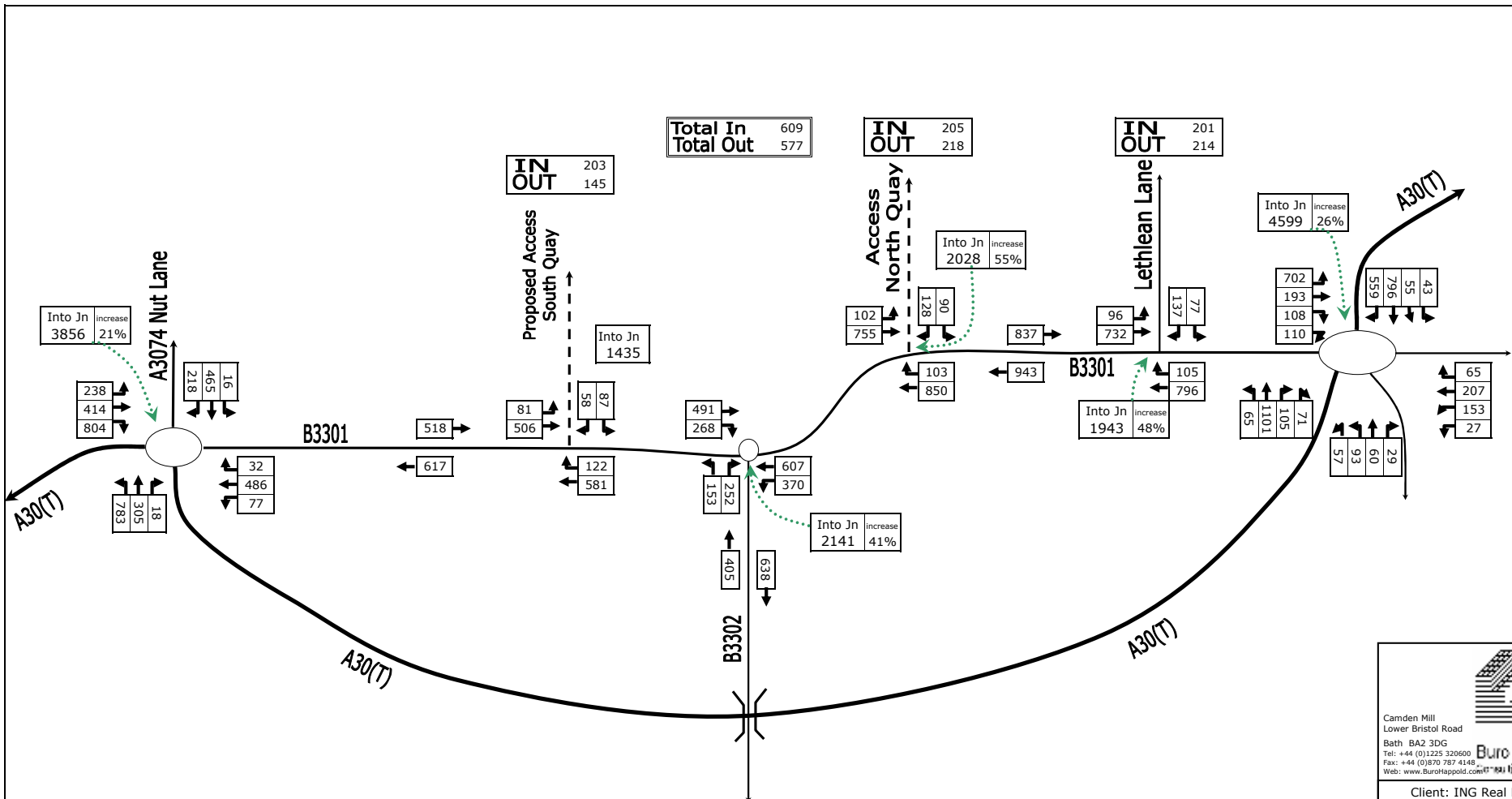

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 Consulting Engineers

Client: ING Real Estate

**Hayle Harbour
 Re-Development
 Background Traffic
 and committed
 2017 August AM Peak**

Scale: - NTS
 Drawn By: RS
 Checked By:
 Date: October 2007

Job Number: **022961**
 Figure ?



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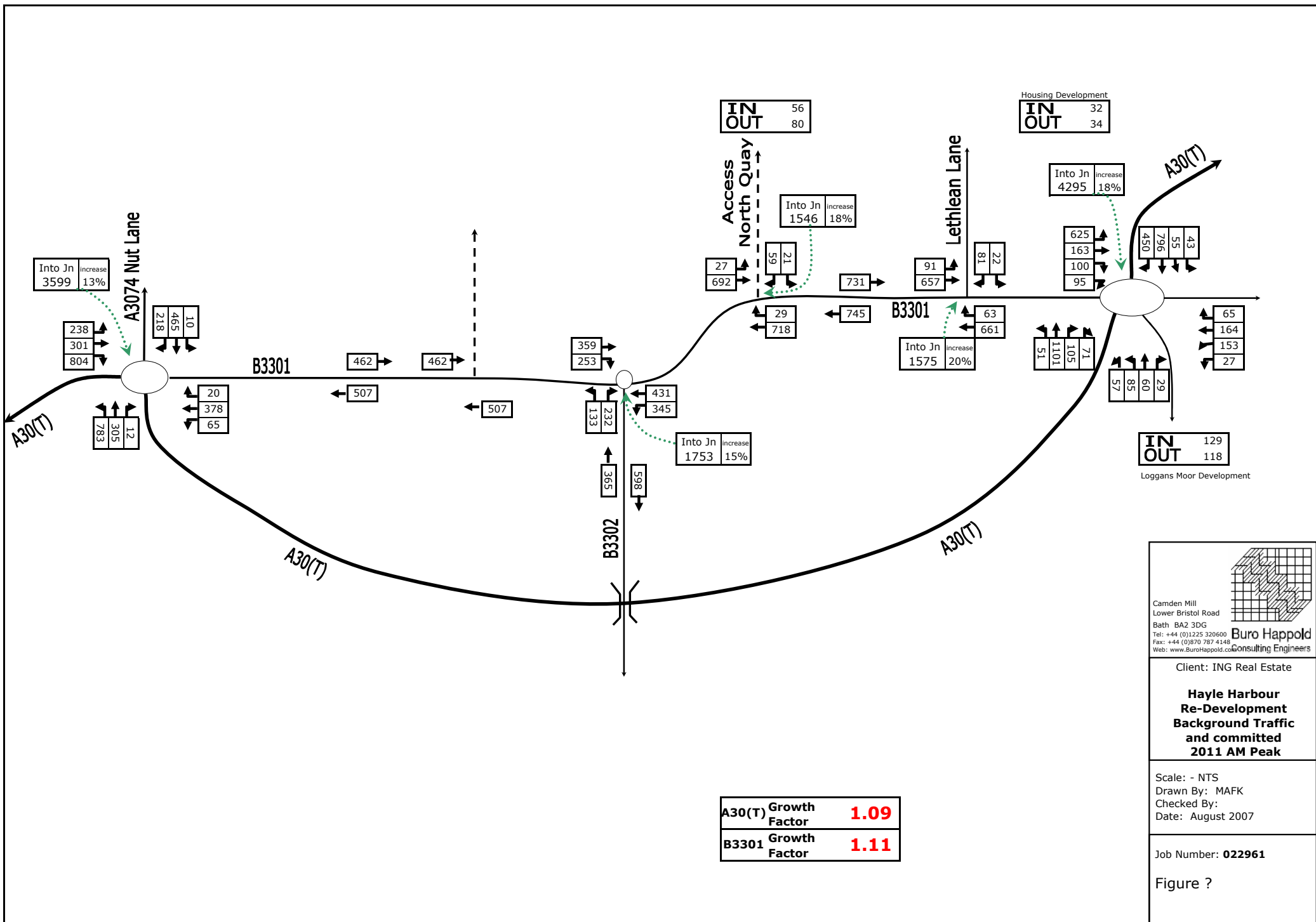
**Hayle Harbour
Re-Development**

**With Development Traffic
2011 AM Peak**

Scale: - NTS
Drawn By: MAFK
Checked By:
Date: August 2007

Job Number: **022961**

Figure ?



| | |
|----------------------|-------------|
| A30(T) Growth Factor | 1.09 |
| B3301 Growth Factor | 1.11 |


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 Figure ?

