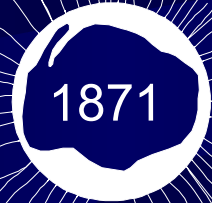
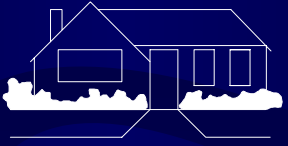


CARY, NORTH CAROLINA



Traffic Impact Study Requirements

- Site peak hour traffic volume is greater than 20 trips.
- Site residential density – greater than 2.175 (R-20).

Traffic Impact Study

- Studies are conducted by On-call Town Traffic Consultants:
- HNTB – 7 years.
- MartinAlexiouBryson – 1 year.

Traffic Impact Study

- **Developer provides application to Town indicating Land use and access.**
- **Request to Traffic consultant for proposal within two days**

Traffic Impact Study

- **On Call Traffic consultant provides proposal to Town within 24 hours.**
- **Town request Applicant to provide 90% of cost.**

Traffic Impact Study

- **Notice to Proceed provided within 24 hours of payment.**
- **Draft study complete within 4 – 6 weeks.**
- **Rezoning process can not begin until draft is complete.**

Traffic Impact Study

Existing Traffic Volume

- AM peak hour traffic volume is counted - 6:30 - 9:30 am.
- PM peak hour traffic volume is counted - 3:30 - 6:30 pm.

Traffic Impact Study

- **Two Traffic zones:**
 - **Inside the Maynard Road**
 - Level of service “F” – v/c 1.25
 - **Outside the Maynard Road**
 - Level of service “D”

Traffic Impact Study

Background Traffic Volume

- Existing traffic volume.
- Approved site plan traffic volumes.
- Background traffic growth for unknown sites.
- Proposed road improvements.

Traffic Impact Study

Site Traffic Volume

- **Site traffic volumes are determined using the Trip Generation database of the Institute of Transportation Engineers (ITE).**
- **Site traffic distribution**

Traffic Impact Study Future Traffic Volume

**Background Traffic Volume +
Site Traffic Volume**

Traffic Impact Study Capacity Analysis

- **Highway Capacity Manual (HCM) - Transportation Research Board - National Research Council.**
- **Determines intersection seconds of delay.**

Traffic Impact Study

Level of Service (LOS)

- **LOS A - 0.0 - 10.0 seconds of delay per vehicle.**
- **LOS B - 10.1 - 20.0 seconds.**
- **LOS C - 20.1 - 35.0 seconds.**
- **LOS D - 35.1 - 55.0 seconds.**
- **LOS E - 55.1 - 80.0 seconds.**

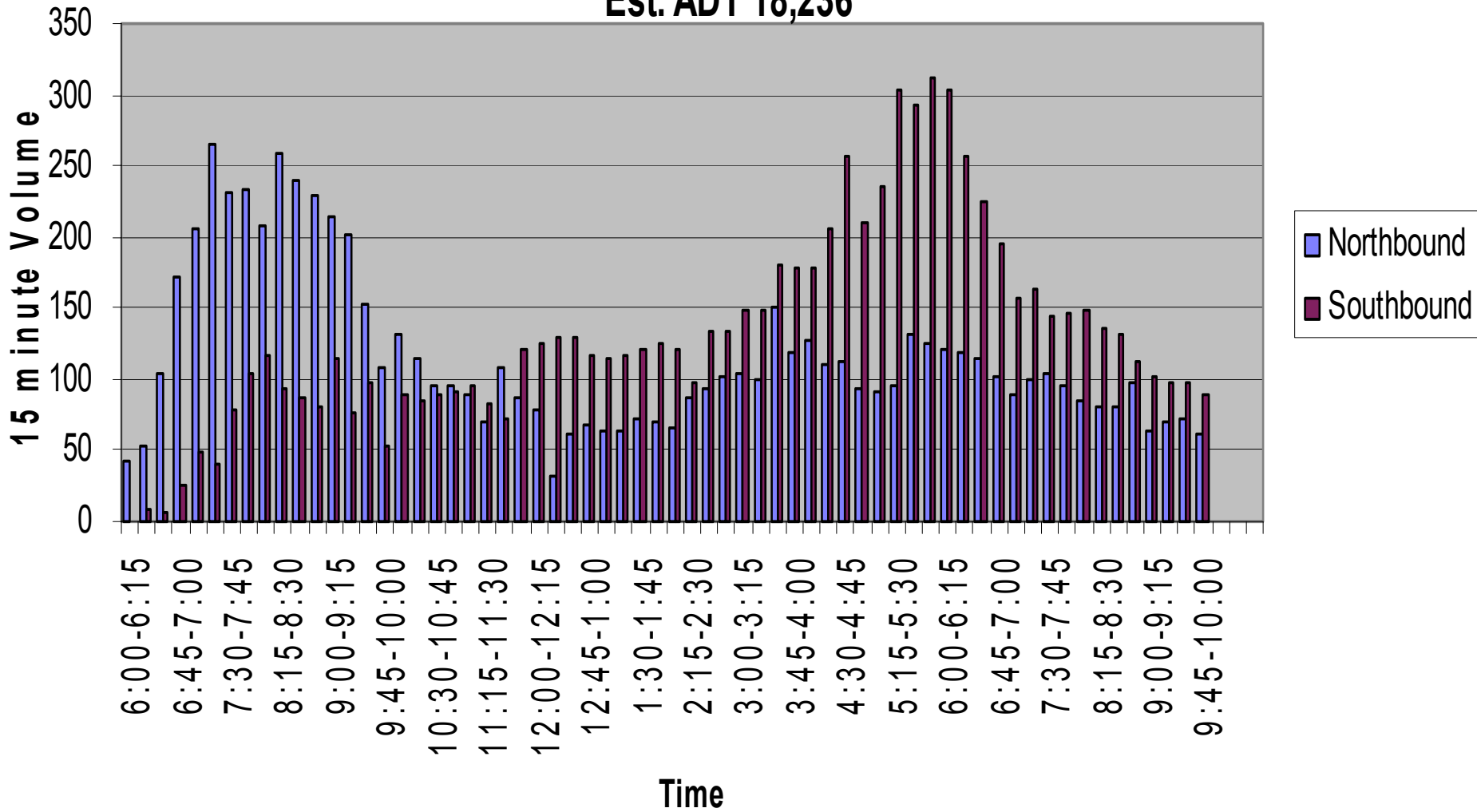
Traffic Impact Study Kildaire Farm @ Ten Ten

• LOS	AM	PM
• 1997*	D(38.8)	B(14.1)
• Est. 2000*	C(28.8)	C(31.2)
• 2003	C(33.6)	D(40.6)
• 2004	C(22.2)	C(22.9)
• *Kimley-Horn (1998)		

Traffic Impact Study Kildaire Farm Road

	AM	PM
• 1997*	1286	1294
• Est. 2000*	2074	1821
• 2003	1323	1684
• 2004	1208	1448
• *Kimley-Horn (1998)		

**Kildaire Farm Road
North of Ten Ten Road
March 11, 2003
Est. ADT 18,236**



Traffic Impact Study Kildaire Farm @ Ten Ten

	AM	PM
• 1997*	2087	1959
• Est. 2000*	3008	3137
• 2003	2695	2908
• 2004	2388	2581

Traffic Impact Study

Ten Ten Road

	AM	PM
• 1997*	840	709
• Est. 2000*	1159	1204
• 2003	1183	930
• 2004	1203	1181