

**Texas Department of Transportation
Book 2 – Technical Provisions**

Grand Parkway Project

**Attachment 8-2
ESALs and Traffic Data**

SH99 - ESALs and Traffic Data

Mainlanes - 30yrs

| Location | Average Daily Traffic | | Percent Truck | | ATHWLD | % Tandem Axles in ATHWLD | Flexible Pavement | Rigid Pavement |
|-----------------------|-----------------------|---------|---------------|-----|--------|--------------------------|-------------------|----------------|
| | 2011 | 2041 | ADT | DHV | | | | |
| From IH 10 to SH 249 | 45,500 | 82,800 | 14.5 | 9.6 | 15,700 | 40 | NA | 62,381,000 |
| From SH 249 to US 59N | 65,000 | 118,300 | 11.1 | 7.3 | 15,800 | 40 | NA | 68,269,000 |

Total # of 18K ESAL Applications in One Direction Expected for a 30 Year Period (2011 to 2041)

Frontage Roads - 30yrs

| Location | Average Daily Traffic | | Percent Truck | | ATHWLD | % Tandem Axles in ATHWLD | Flexible Pavement | Rigid Pavement |
|-----------------------|-----------------------|--------|---------------|------|--------|--------------------------|-------------------|----------------|
| | 2011 | 2041 | ADT | DHV | | | | |
| From IH 10 to SH 249 | 5,100 | 9,300 | 31.4 | 23.6 | 13,500 | 50 | 8,618,000 | 10,715,000 |
| From SH 249 to US 59N | 11,500 | 20,900 | 20.9 | 15.7 | 14,000 | 50 | 12,967,000 | 16,111,000 |

Total # of 18K ESAL Applications in One Direction Expected for a 30 Year Period (2011 to 2041)

Frontage Roads -
20yrs

Total # of 18K ESAL Applications in One Direction Expected for a 20 Year Period (2011 to 2031)

| Location | Average Daily Traffic | | Percent Truck | | ATHWLD | % Tandem Axles in ATHWLD | Flexible Pavement | Rigid Pavement |
|-----------------------|-----------------------|--------|---------------|------|--------|--------------------------|-------------------|----------------|
| | 2011 | 2031 | ADT | DHV | | | | |
| From IH 10 to SH 249 | 5,100 | 8,300 | 31.4 | 23.6 | 13,400 | 50 | 5,346,000 | 6,647,000 |
| From SH 249 to US 59N | 11,500 | 18,600 | 20.9 | 15.7 | 13,900 | 50 | 8,030,000 | 9,978,000 |