7. PRESENTATION(S)

b. Presentation and discussion of the Donax Area Traffic Study

City of Sanibel

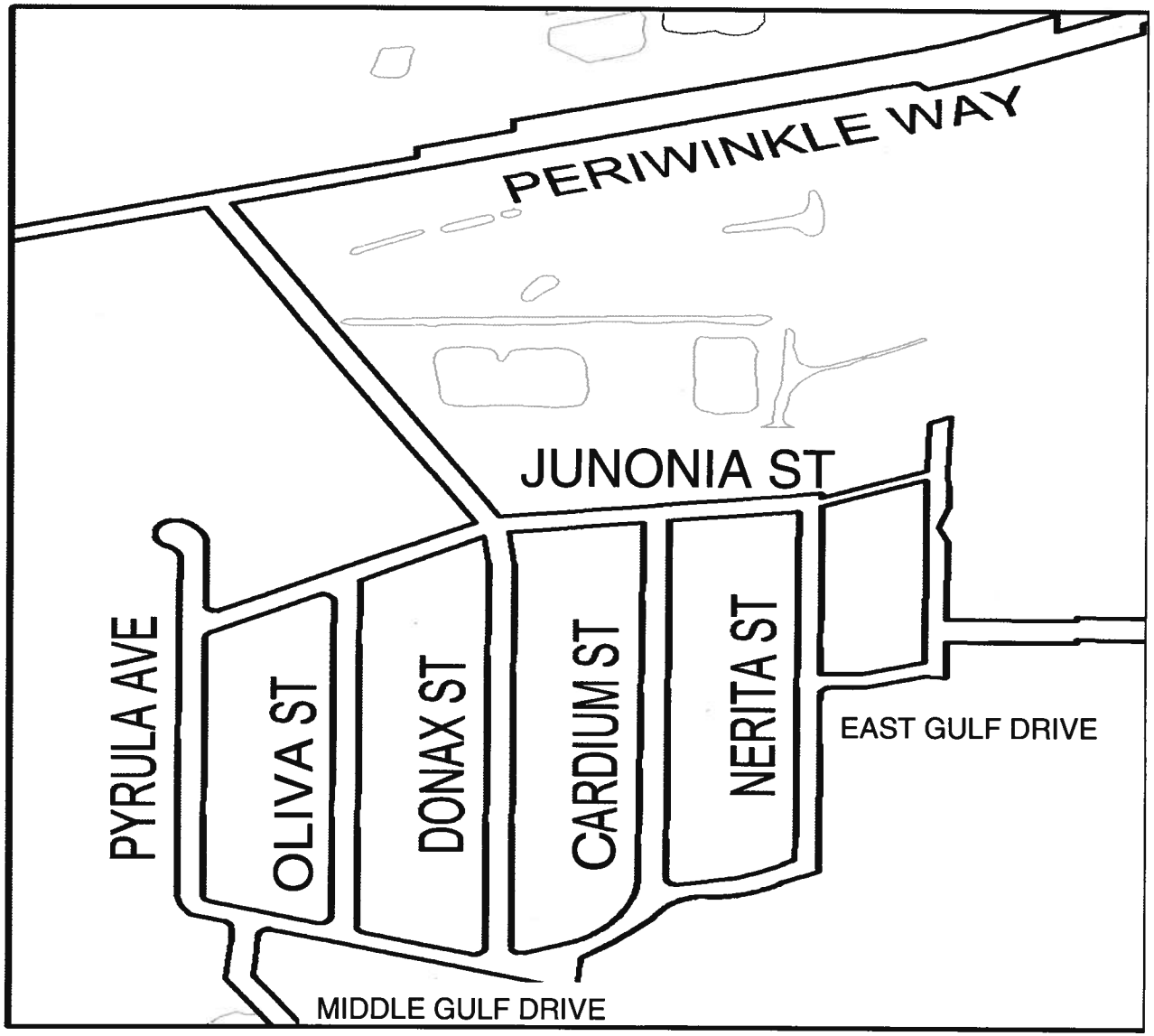
Donax Area Traffic Study

Potential Options
And
Recommendations

November 18, 2008

Study Area

Donax Area Traffic Study



Donax Area Traffic Study

Non-Peak and Peak Traffic Volume Counts

Non-Peak (September 2007) and Peak (March 2008) Traffic Volume Counts were completed for the following seven locations within the Study Area.

Traffic Volume Counts

- Periwinkle Way west of Bailey Road
- Junonia Street between Cardium Street and Nerita Street
- East Gulf Drive west of Beach Road
- Cardium Street
- Donax Street between Junonia Street and Middle Gulf Drive
- Nerita Street between East Gulf Drive Connector and Junonia Street
- Nerita Street between Middle and East Gulf Drives

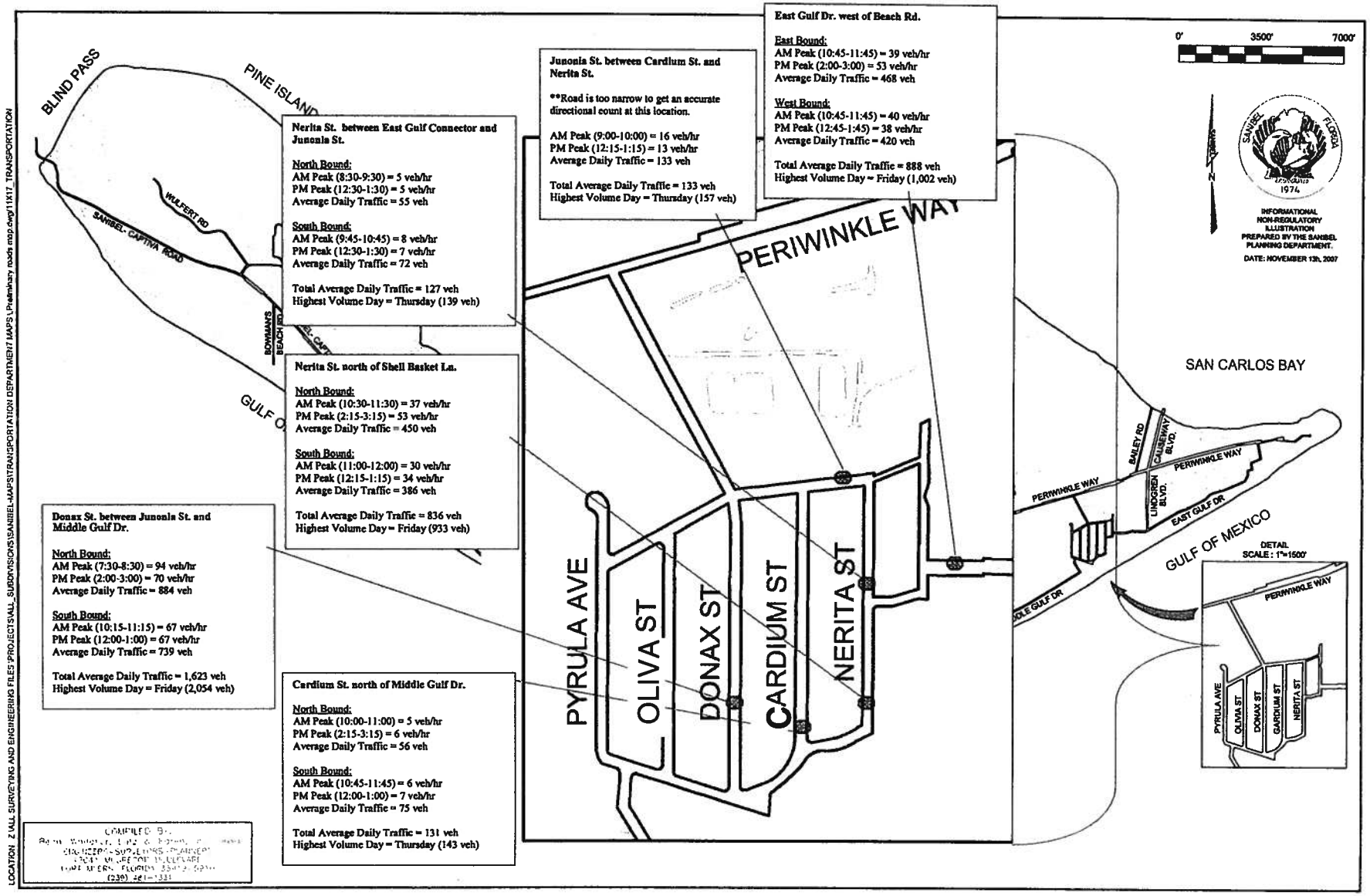
Traffic Volume and Turning Movement Counts

- Donax Street/Periwinkle Way
- Donax Street/Middle Gulf Drive

Non-Peak September 2007 Traffic Counts

Source: FTE Traffic Count Report

Donax Area Traffic Study



Nerita St. between East Gulf Connector and Junonia St.

North Bound:
AM Peak (8:30-9:30) = 5 veh/hr
PM Peak (12:30-1:30) = 5 veh/hr
Average Daily Traffic = 55 veh

South Bound:
AM Peak (9:45-10:45) = 8 veh/hr
PM Peak (12:30-1:30) = 7 veh/hr
Average Daily Traffic = 72 veh

Total Average Daily Traffic = 127 veh
Highest Volume Day = Thursday (139 veh)

Nerita St. north of Shell Basket Ln.

North Bound:
AM Peak (10:30-11:30) = 37 veh/hr
PM Peak (2:15-3:15) = 53 veh/hr
Average Daily Traffic = 450 veh

South Bound:
AM Peak (11:00-12:00) = 30 veh/hr
PM Peak (12:15-1:15) = 34 veh/hr
Average Daily Traffic = 386 veh

Total Average Daily Traffic = 836 veh
Highest Volume Day = Friday (933 veh)

Junonia St. between Cardium St. and Nerita St.

**Road is too narrow to get an accurate directional count at this location.

AM Peak (9:00-10:00) = 16 veh/hr
PM Peak (12:15-1:15) = 13 veh/hr
Average Daily Traffic = 133 veh

Total Average Daily Traffic = 133 veh
Highest Volume Day = Thursday (157 veh)

East Gulf Dr. west of Beach Rd.

East Bound:
AM Peak (10:45-11:45) = 39 veh/hr
PM Peak (2:00-3:00) = 53 veh/hr
Average Daily Traffic = 468 veh

West Bound:
AM Peak (10:45-11:45) = 40 veh/hr
PM Peak (12:45-1:45) = 38 veh/hr
Average Daily Traffic = 420 veh

Total Average Daily Traffic = 888 veh
Highest Volume Day = Friday (1,002 veh)

Donax St. between Junonia St. and Middle Gulf Dr.

North Bound:
AM Peak (7:30-8:30) = 94 veh/hr
PM Peak (2:00-3:00) = 70 veh/hr
Average Daily Traffic = 884 veh

South Bound:
AM Peak (10:15-11:15) = 67 veh/hr
PM Peak (12:00-1:00) = 67 veh/hr
Average Daily Traffic = 739 veh

Total Average Daily Traffic = 1,623 veh
Highest Volume Day = Friday (2,054 veh)

Cardium St. north of Middle Gulf Dr.

North Bound:
AM Peak (10:00-11:00) = 5 veh/hr
PM Peak (2:15-3:15) = 6 veh/hr
Average Daily Traffic = 56 veh

South Bound:
AM Peak (10:45-11:45) = 6 veh/hr
PM Peak (12:00-1:00) = 7 veh/hr
Average Daily Traffic = 75 veh

Total Average Daily Traffic = 131 veh
Highest Volume Day = Thursday (143 veh)

COMPILED BY:
(239) 261-1331

Dixie

L:\jd:Donax Area Non Peak 2007 Traffic Counts

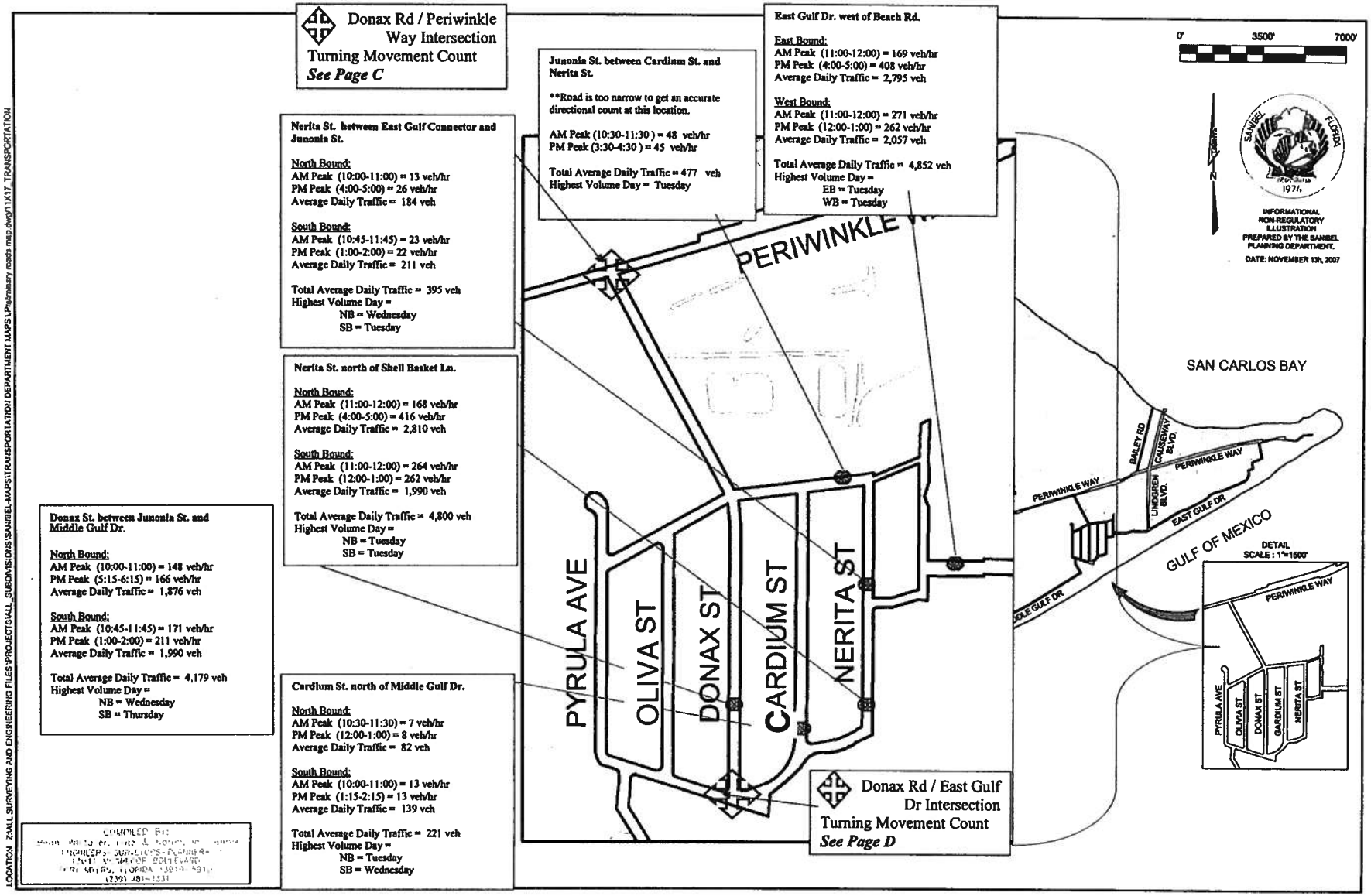
Average Daily Traffic is calculated based on an average of Tuesday, Wednesday and Thursday volumes.

Figure 4

Peak March 2008 Traffic Counts

Source: FTE Traffic Count Report

Donax Area Traffic Study



Lxjd: Donax Road Area Traffic Study

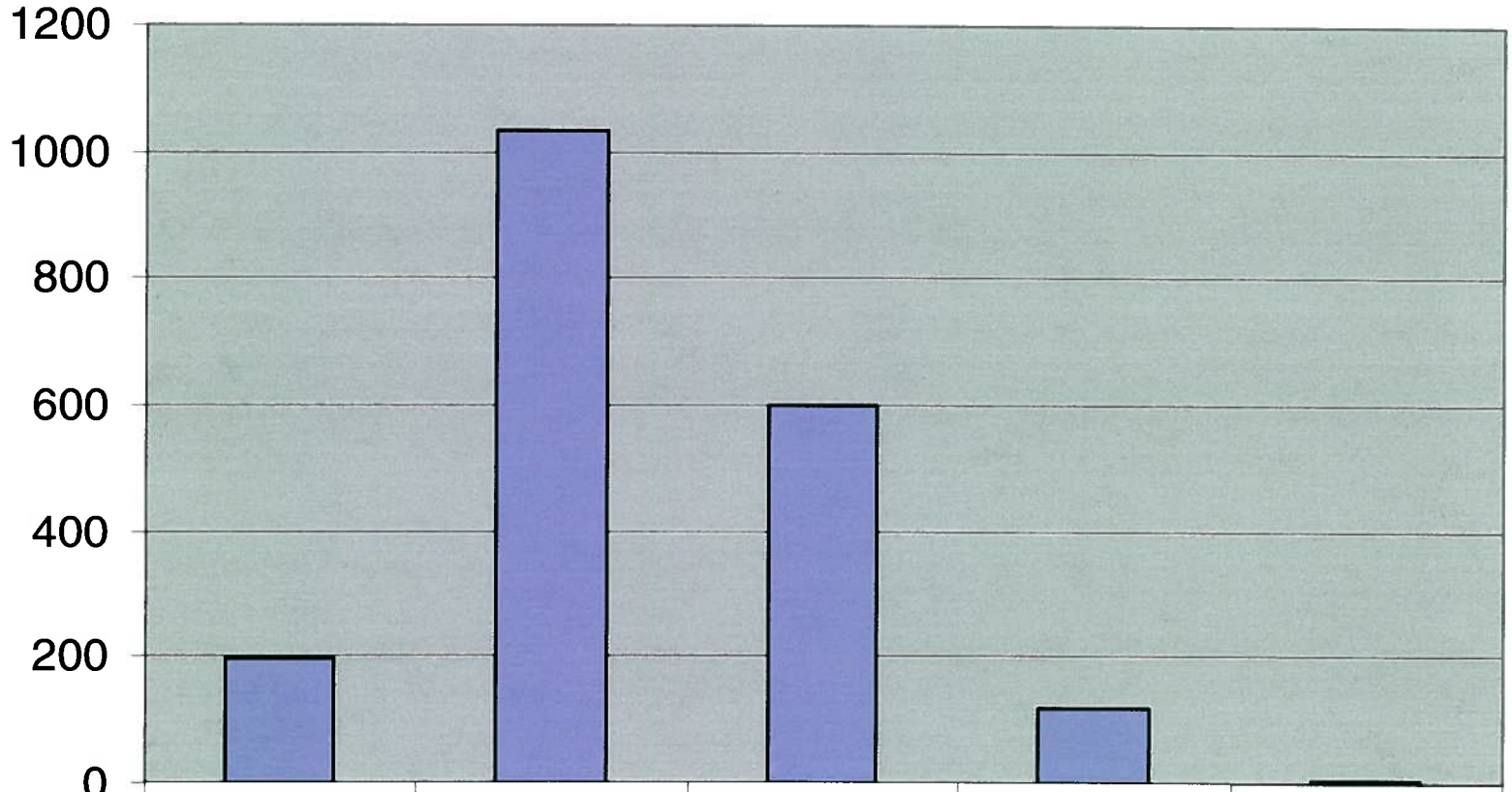
Average Daily Traffic is calculated based on an average of Tuesday, Wednesday and Thursday volumes.

Figure 5

DONAX STREET SPEED SURVEY

November 26, 2007 to December 11, 2007

Conducted 7A-9A & 3P-5P

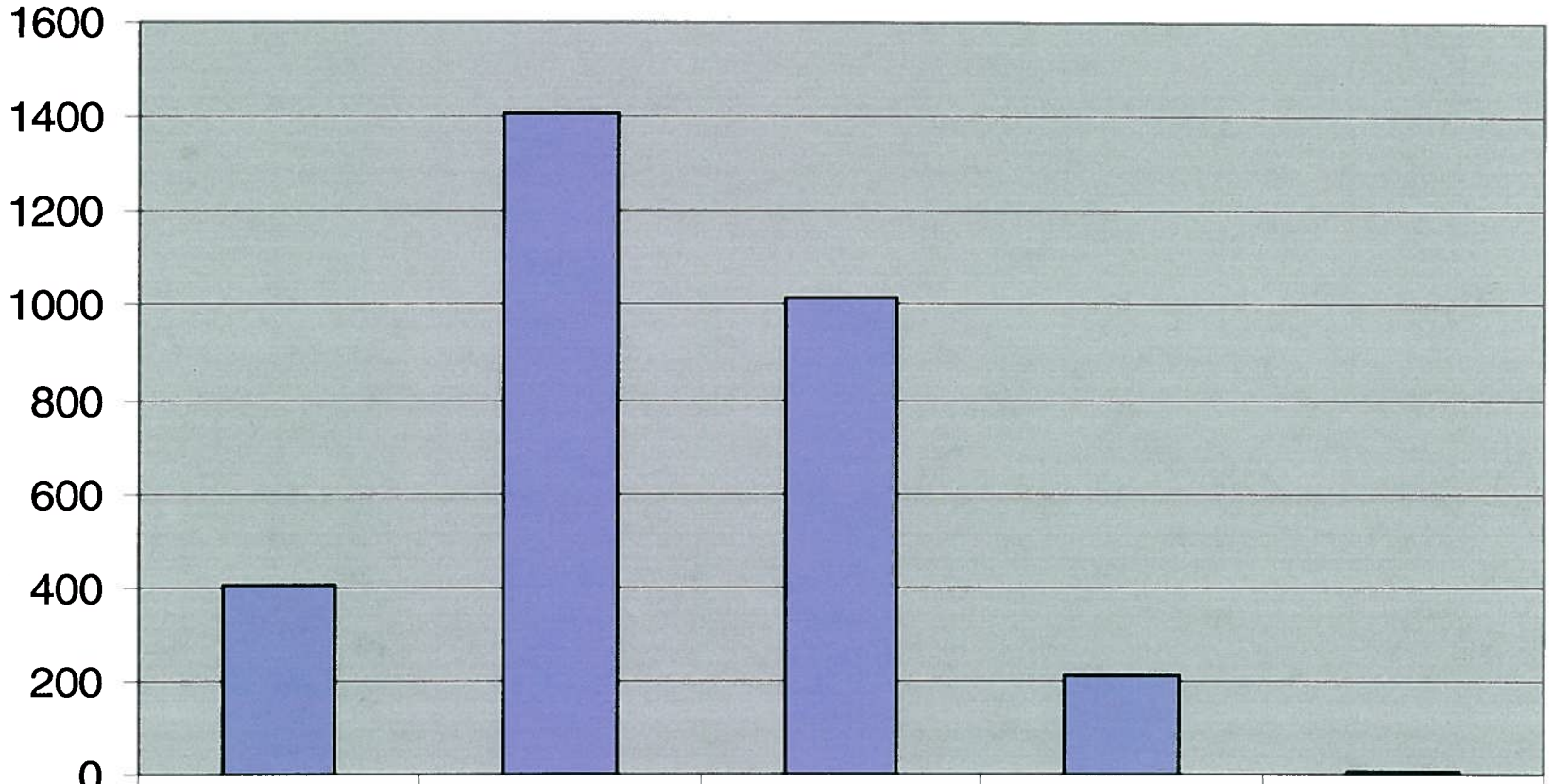


	20-25	26-30	31-35	36-40	41-45
Vehicle Speed	199	1034	598	120	6

DONAX STREET SPEED SURVEY

March 31, 2008 to April 4, 2008

Conducted 7A-9A & 3P-5P



	20-25	26-30	31-35	36-40	41-45
Vehicles	405	1407	1012	209	7

Donax Area Traffic Study

Recommendations and Options

- **Recommendations (Currently Under Contract)**
  - Pave Junonia Street between Donax and Nerita
  - Realign intersection of Junonia and Nerita and pave apron at stop sign

- **Options**
  - Install signage to direct all off-Island traffic away from neighborhood streets
  - 4 Way stop at Donax and Junonia intersection
  - Close Nerita Street to through vehicular traffic
  - Install Truck Route signage to direct Commercial and Resort deliveries away from the neighborhood
  - Install a 25 MPH speed limit on Cardium and other neighborhood streets
  - Consider conversion of neighborhood streets to one way traffic circulation

Larkin and Mark Hammond Report to City Council

Examples of commercial traffic utilizing Nerita Street

Sysco delivery trucks	Holiday Inn, Sanibel
Linen service trucks	Holiday Inn, Sanibel
Liquor distributor	Holiday Inn, Sanibel
Budweiser	Holiday Inn, Sanibel
Pepsi/Coke truck	Holiday Inn, Sanibel
Seafood suppliers	Holiday Inn, Sanibel
Tour Buses	Holiday Inn, Sanibel
Large landscape trucks	South Seas
Large buses	South Seas
Independent 18 wheel trucks	Short cut to & from Bridge
Large motor coaches	Back route to Periwinkle Park

Larkin and Mark Hammond Report to City Council

Donax Appropriate for Commercial Traffic

- Road characteristics
- Resort and Cit utility uses
- Separation of road from Shared Use Path
- High percentage of traffic travels within speed limit

West Gulf/Nerita/East Gulf Inappropriate for Commercial Traffic

- Four 90 degree turns
- Truck turning movements outside paved road surface
- Nerita has high traffic count
- Nerita beach access heavily utilized by pedestrians

Larkin and Mark Hammond Report to City Council

Request Additional Options for Safety and Livability

1. Eliminate thru-commercial traffic on Junonia, Middle Gulf and Nerita by restricting gross vehicle weight, number of axles or other means to prohibit large vehicles from cutting thru on these residential streets.

2. Improve signage in the area to reduce unnecessary “lost” traffic and to direct trucks to the appropriate route.

3. Close Nerita Street to vehicular traffic (at Periwinkle Park) as indicated in the study to reduce the Nerita traffic count.