



CITY COUNCIL AGENDA REPORT

MEETING DATE: JULY 19, 2004

ITEM NUMBER:

SUBJECT: EASTSIDE BIENNIAL TRAFFIC MONITORING REPORT
DATE: JULY 8, 2004
FROM: PUBLIC SERVICES DEPARTMENT - TRANSPORTATION SERVICES DIVISION
PRESENTATION BY: WILLIAM J. MORRIS, DIRECTOR OF PUBLIC SERVICES
FOR FURTHER INFORMATION CONTACT: PETER NAGHAVI, TRANSPORTATION SERVICES
MANAGER, 714-754-5182

RECOMMENDATION:

Receive and file report documenting the results of the 2004 Eastside Traffic Monitoring Program.

BACKGROUND:

The Eastside Costa Mesa is generally described as the area located east of Newport Boulevard (Attachment 1). This area is primarily residential in nature with the exception of commercial properties located adjacent to East 17th Street and Newport Boulevard. There are also some isolated commercial properties within the Eastside area, located primarily between Newport Boulevard and Orange Avenue south of Walnut Street. The grid pattern street system within the Eastside area serves not only local access within the residential community, but also access to commercial development within and adjacent to the area. As collector and secondary roadway designations on the City's Master Plan of Highways (MPH), some streets within the Eastside area provide convenient alternative routes to non-local commuter traffic.

As part of the analysis to provide improvement options to East 17th Street and Newport Boulevard, staff prepared a comprehensive review of the Eastside Costa Mesa residential streets as well as improvements to the above major arterials. Staff presented this comprehensive report during the regular City Council meeting of May 21, 2001.

Based on the results of the above meeting, the City Council directed staff to monitor traffic conditions throughout the Eastside area on a biennial basis (once every two years) and present findings to the City Council starting with a report in 2002. The Year 2002 report was presented during the regular City Council meeting on July 15, 2002.

ANALYSIS:

The Eastside Biennial Traffic Monitoring Report identifies changes in traffic conditions that may be indicative of increased cut-through traffic as a result of increased arterial congestion. The purposes of the report are:

- Track traffic conditions to provide an opportunity to immediately respond to any significant changes within the eastside area as appropriate;
- Identify and implement acceptable traffic mitigation measures; and
- Ensure that the mitigation in one area does not shift traffic concerns to another area.

For the 2004 report, traffic volumes were collected in the Eastside area between February and June 2004. Traffic volume data at a total of 95 arterial and residential streets in the Eastside area were collected and are shown in Table 1 (Attachment 2). At several locations, historical data was available to compare the counts and to identify any growth pattern over the past few years. The results indicated that only a few changes have occurred in traffic volumes over the past few years.

Due to relatively low traffic volumes typically found on residential streets as compared to arterial streets, a threshold of 15% change over past traffic counts and a minimum Average Daily Traffic (ADT) volume of "3,000" has been used as a cut-off to identify areas where traffic volume growth may be indicative of the need for further study.

A total of 3 residential street segments indicate a change in traffic volumes that exceed the above criteria. These include:

- 22nd Street/Santiago Drive west of Irvine Avenue (in City of Newport Beach);
- Orange Avenue north of 15th Street; and
- Santa Ana Avenue north of 16th Street.

The current traffic volumes on 22nd Street, as well as on Santa Ana Avenue, indicate a decrease when compared to year 2002 data, whereas Orange Avenue shows an increase of 18% in current traffic volume compared to year 2002 data. However, the current volume of traffic (4,500 ADT) on this street segment is not considered to be significant.

Over the past year, staff has not received any complaints from the Eastside residents that would require the implementation of any traffic control measures.

Based on the data presented in Attachment 2, staff believes that the overall travel patterns on the Eastside area have not changed significantly over the past few years and therefore do not see any conditions that would warrant the implementation of any major traffic control measures at this time. Staff, however, will continue to monitor any new developments through the biennial traffic monitoring program effort to identify traffic shifts that would require mitigation.

ALTERNATIVES CONSIDERED:

The City Council may direct staff to conduct additional focused analysis of traffic conditions on certain streets within the Eastside area. Staff could conduct these additional counts and provide the results at a future City Council meeting. The City Council may also direct staff to discontinue the biennial monitoring process. This action will however result in inadequate information for future mitigation purposes.

FISCAL REVIEW:

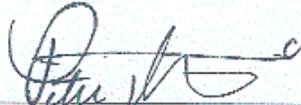
There is no fiscal impact with this item.

LEGAL REVIEW:

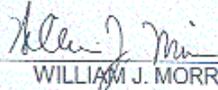
Legal review is not required on this item.

CONCLUSION:

The Transportation Services Division has recently completed the biennial collection of traffic volumes in the Eastside Costa Mesa area for comparison and analysis with past traffic volume records. The data, as indicated in Attachment 2, reveals minimal changes in overall traffic volume when compared to past traffic conditions. Therefore, staff believes that the existing traffic volumes and conditions do not warrant the implementation of any major traffic control measure at this time. The next biennial traffic monitoring report for Eastside Costa Mesa will be in July 2006.



PETER NAGHAVI, MANAGER
Transportation Services Division



WILLIAM J. MORRIS
Director of Public Services

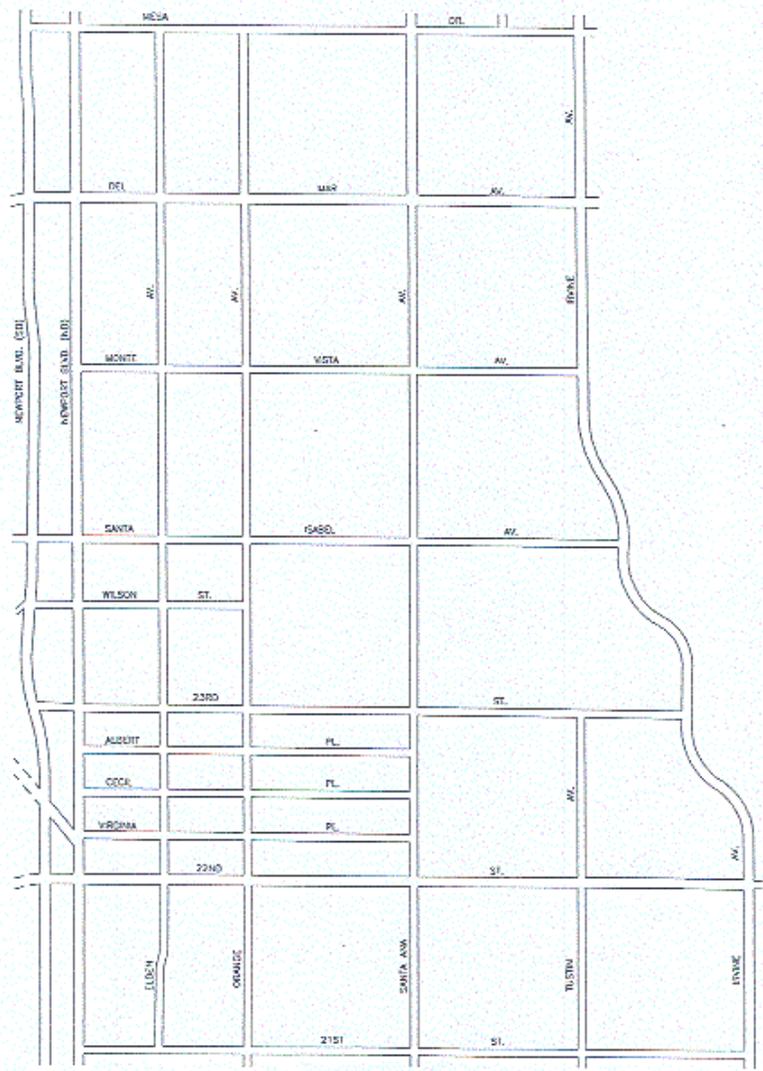
DISTRIBUTION: City Manager
Deputy City Clerk
Deputy City Manager – Dev. Svcs.
Director of Public Services
Staff
File

ATTACHMENTS: 1 Study Area
2 Eastside Costa Mesa Historical Traffic Volumes

File Name

Date

Time



SEE SHEET 2



STUDY AREA
EASTSIDE BIENNIAL TRAFFIC MONITORING REPORT

SEE SHEET 1



STUDY AREA
EASTSIDE BIENNIAL TRAFFIC MONITORING REPORT

SHEET
2

TABLE 1
EASTSIDE COSTA MESA HISTORICAL TRAFFIC VOLUMES

Indx	Location	Classification	Average Daily Traffic (ADT)						
			2004	2002	2000/2001	1997	1995	1991	1985
1	15th St w/o Irvine Av	Local	4,200	4,600	4,000	5,000	4,000	N/A	N/A
2	15th St e/o Newport Bl	Local	2,500	2,700	2,000	4,000	2,000	2,000	N/A
3	16th St e/o Newport Bl	Local	4,100	3,800	4,000	4,000	4,000	6,000	5,500
4	16th St e/o Orange Av	Local	2,700	2,500	N/A	N/A	N/A	N/A	4,700
5	16th St e/o Santa Ana Av	Local	2,800	2,500	3,000	N/A	N/A	N/A	4,800
6	16th St e/o Tustin Av	Local	3,100	2,700	N/A	N/A	N/A	N/A	4,900
7	17th St e/o Newport Bl	Primary	35,300	37,200	36,000	40,000	43,000	36,000	N/A
8	17th St e/o Orange Av	Primary	33,100	35,200	35,000	32,000	34,000	32,000	27,000
9	17th St e/o Santa Ana Av	Primary	32,000	33,500	35,000	31,000	34,000	N/A	N/A
10	17th St w/o Irvine Av	Primary	32,800	32,300	34,000	34,000	31,000	32,000	24,000
11	17th St w/o Westminster	Primary	31,800	36,000	33,000	32,000	35,000	N/A	27,000
12	18th St e/o Newport Bl	Collector	2,300	2,000	2,000	N/A	2,000	N/A	N/A
13	18th St e/o Tustin Av	Collector	1,900	2,100	2,000	N/A	2,000	N/A	N/A
14	18th St e/o Santa Ana Bl	Collector	2,400	1,800	N/A	N/A	N/A	N/A	N/A
15	18th St e/o Orange	Collector	3,100	2,500	N/A	N/A	N/A	N/A	N/A
16	18th St e/o Newport Bl	Collector	14,400	12,000	12,000	13,000	11,000	N/A	N/A
17	18th St e/o Orange Av	Collector	7,400	8,000	8,000	7,000	7,000	9,000	8,000
18	18th St e/o Santa Ana Av	Collector	7,500	7,900	7,000	7,000	6,000	N/A	N/A
19	18th St e/o Tustin Av	Collector	5,600	6,000	7,000	6,000	6,000	7,000	5,000
20	18th St w/o Orange	Collector	10,800	10,300	11,000	13,000	9,000	11,000	8,000
21	20th St e/o Newport Bl	Local	3,600	3,200	3,000	N/A	3,000	N/A	N/A
22	20th St e/o Tustin Av	Local	3,300	3,400	3,000	N/A	3,000	N/A	N/A
23	21st St e/o Newport Bl	Local	3,000	2,600	3,000	N/A	3,000	N/A	N/A
24	21st St (Holiday) w/o Irvine Av	Local	1,800	1,700	2,000	N/A	2,000	N/A	N/A
25	22nd St e/o Newport Bl	Secondary	10,000	11,000	12,200	N/A	4,000	8,000	8,000
26	22nd St e/o Orange Av	Collector	7,400	6,700	7,000	8,000	7,000	5,000	7,000
27	22nd St e/o Santa Ana Av	Collector	5,800	5,500	8,000	7,000	6,000	4,000	5,000
28	22nd St w/o Irvine Av	Collector	4,600	5,600	5,000	7,000	4,000	4,000	4,000
29	23rd St e/o Newport Bl	Local	1,400	1,200	1,000	N/A	1,000	N/A	N/A
30	23rd St e/o Tustin Av	Local	1,400	1,500	1,500	N/A	1,500	N/A	N/A
31	Bay St e/o Newport Bl	Collector	5,800	5,200	5,000	N/A	5,000	N/A	N/A
32	Broadway e/o Newport Bl	Local	3,900	4,100	4,000	N/A	5,000	N/A	N/A
33	Broadway e/o Tustin Av	Local	1,600	1,400	1,000	N/A	1,000	N/A	N/A
34	Cabrillo St e/o Newport Bl	Collector	3,100	2,300	2,000	N/A	2,000	N/A	N/A
35	Cabrillo St w/o Irvine Av	Collector	500	500	N/A	N/A	N/A	N/A	N/A
36	Del Mar Av e/o Newport Bl	Secondary	13,300	13,600	12,000	12,000	10,000	11,000	6,000
37	Del Mar Av e/o Orange Av	Secondary	7,300	7,800	8,000	8,000	8,000	N/A	N/A
38	Del Mar Av w/o Orange Av	Secondary	9,900	10,900	10,000	12,000	10,000	11,000	6,000
39	Del Mar Av e/o Santa Ana Av	Secondary	6,200	6,300	7,000	9,000	6,000	N/A	4,000
40	Flower St e/o Newport Bl	Local	800	800	1,000	N/A	1,000	N/A	N/A
41	Flower St e/o Orange Av	Local	700	800	600	N/A	600	N/A	N/A
42	Flower St e/o Santa Ana Av	Local	600	900	600	N/A	800	N/A	N/A
43	Flower St e/o Tustin Av	Local	600	1,000	600	N/A	500	N/A	N/A
44	Irvine Av n/o Mesa Dr	Secondary	21,300	22,000	23,000	29,000	27,000	35,000	27,000
45	Irvine Av n/o Del Mar Av	Secondary	28,400	26,600	26,000	26,000	27,000	39,000	25,000
46	Irvine Av n/o 22nd St	Secondary	27,700	27,400	29,000	31,000	27,000	40,000	31,000
47	Irvine Av n/o 21st St	Secondary	25,400	26,800	27,000	25,000	25,000	37,000	32,000
48	Irvine Av n/o 19th St	Secondary	28,600	28,100	29,000	29,000	27,000	37,000	32,000
49	Irvine Av n/o 18th St	Secondary	24,100	24,800	24,000	25,000	24,000	28,000	N/A
50	Irvine Av n/o 17th St	Secondary	29,000	21,900	22,000	26,000	22,000	28,000	22,000
51	Irvine Av n/o 16th St	Secondary	13,700	13,500	15,000	16,000	15,000	17,000	20,000
52	Mesa Dr w/o Orange Av	Collector	7,100	6,700	7,000	5,000	6,000	6,000	9,000
53	Mesa Dr n/o Santa Ana Av	Collector	6,800	7,800	7,000	N/A	N/A	N/A	N/A
54	Newport Bl (NB) n/o Mesa Dr	Secondary	6,900	7,300	7,000	N/A	N/A	N/A	N/A
55	Newport Bl (SB) n/o Mesa Dr	Secondary	28,100	25,300	23,000	23,000	31,000	82,000	N/A
56	Newport Bl (NB) n/o FairDel Mar	Secondary	21,000	22,700	22,000	N/A	41,000	78,000	96,000
57	Newport Bl (SB) n/o FairDel Mar	Secondary	24,300	23,600	20,000	52,000	41,000	78,000	96,000
58	Newport Bl (NB) n/o Santa Isabel/Vanguard	Secondary	12,500	14,000	11,000	11,000	21,000	62,000	N/A
59	Newport Bl (SB) n/o Santa Isabel/Vanguard	Secondary	9,800	9,800	7,000	9,000	21,000	62,000	N/A
60	Newport Bl (NB) n/o Victoria/22nd	Secondary	28,400	29,900	27,000	24,000	52,000	79,000	64,000
61	Newport Bl (SB) n/o Victoria/22nd	Secondary	30,000	28,900	27,000	27,000	52,000	79,000	64,000
62	Newport Bl n/o 19th St	Major	103,600	100,400	104,000	95,000	94,000	42,000	65,000
63	Newport Bl n/o Harbor Bl	Major	74,100	73,600	77,000	70,000	70,000	36,000	55,000
64	Newport Bl n/o 17th St	Major	84,700	77,400	76,000	78,000	67,000	49,000	71,000

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Index	Location	Classification	Average Daily Traffic (ADT)						
			2004	2002	2000/2001	1997	1995	1991	1985
65	Newport Bl n/o Industrial Av	Major	63,200	47,200	54,000	45,000	45,000	N/A	59,000
66	Newport Bl (NB) s/o Bay St	Secondary	9,200	8,700	9,000	48,000	N/A	N/A	N/A
67	Newport Bl (SB) s/o Bay St	Secondary	8,200	7,400	6,000	N/A	N/A	N/A	N/A
68	Oglio e/o Orange	Local	2,200	2,000	2,000	N/A	N/A	1,000	N/A
69	Orange Av n/o Del Mar	Collector	2,300	2,300	3,000	2,000	2,000	4,000	3,000
70	Orange Av n/o Santa Isabel Av	Collector	3,300	3,400	3,000	2,000	2,000	7,000	4,000
71	Orange Av n/o 22nd St	Collector	4,400	4,500	5,000	4,000	N/A	9,000	4,000
72	Orange Av n/o 21st St	Collector	5,800	6,100	6,000	5,000	5,000	12,000	8,000
73	Orange Av n/o 19th St	Collector	6,800	8,000	8,000	7,000	7,000	11,000	8,000
74	Orange Av n/o 19th St	Collector	7,300	8,100	9,000	7,000	7,000	10,000	9,000
75	Orange Av n/o 17th St	Collector	11,800	13,200	12,000	10,000	10,000	12,000	10,000
76	Orange Av n/o 16th St	Collector	7,700	6,700	10,000	7,000	8,000	9,000	8,000
77	Orange Av n/o 15th St	Collector	4,500	3,800	4,000	N/A	3,000	4,000	4,000
78	Rochester Av e/o Newport Bl	Local	4,500	5,200	5,000	4,000	4,000	4,000	4,000
79	Santa Ana Av n/o Mesa Dr	Secondary	8,000	8,200	9,000	10,000	10,000	13,000	21,000
80	Santa Ana Av n/o Del Mar Av	Secondary	6,700	7,100	7,000	7,000	7,000	10,000	N/A
81	Santa Ana Av n/o Santa Isabel Av	Collector	5,700	5,400	5,000	6,000	5,000	8,000	N/A
82	Santa Ana Av n/o 22nd St	Collector	6,400	5,400	4,000	N/A	N/A	N/A	6,100
83	Santa Ana Av n/o 21st St	Collector	5,300	5,600	5,000	5,000	5,000	9,000	N/A
84	Santa Ana Av n/o 19th St	Collector	5,800	6,300	6,000	6,000	6,000	8,000	6,000
85	Santa Ana Av n/o 17th St	Collector	7,600	7,100	8,000	9,000	8,000	8,000	7,000
86	Santa Ana Av n/o 16th St	Collector	5,800	7,600	8,000	9,000	7,000	7,000	6,900
87	Santa Ana Av n/o 15th St	Collector	4,500	4,500	5,000	6,000	4,000	4,000	5,000
88	Santa Isabel Av e/o Newport Bl	Collector	3,800	3,700	4,000	3,000	3,000	4,000	5,000
89	Santa Isabel Av e/o Orange Av	Collector	2,900	3,300	3,000	3,000	5,000	N/A	N/A
90	Tustin Av n/o 21st St	Collector	3,000	3,200	2,800	N/A	N/A	N/A	N/A
91	Tustin Av n/o 20th St	Collector	2,500	2,900	3,000	N/A	2,000	3,000	N/A
92	Tustin Av n/o 19th St	Collector	3,900	3,400	4,000	2,000	3,000	4,000	N/A
93	Tustin Av n/o 17th St	Collector	5,400	6,400	6,000	4,000	4,000	4,000	4,000
94	Tustin Av n/o 16th St	Collector	6,600	7,500	7,000	5,000	6,000	6,000	5,000
95	Wilson St e/o Newport Bl	Local	6,400	6,100	N/A	N/A	N/A	N/A	N/A

NOTE: Values in bold represent residential streets with at least 3,000 ADT and experienced a traffic volume increase of greater than 15% of 2002 conditions.