

Council Meeting of
August 5, 2008

Honorable Mayor and Members
of the City Council
City Hall
Torrance, California

Members of the Council:

SUBJECT: Public Works – Status Report on traffic signal synchronization in the City of Torrance. Expenditure: Not applicable.

RECOMMENDATION

The Public Works Director recommends that City Council receive and file a status report on the synchronization of traffic signals in the City of Torrance.

Funding

Not applicable.

BACKGROUND/ANALYSIS

Traffic circulation and the efficient flow of traffic in the City of Torrance is of significant interest to the community. As such, the Public Works Department has been analyzing the existing timing and synchronization of traffic signals on arterial streets throughout the city. This report will summarize the efforts of the Public Works and Community Development Departments and discuss upcoming modifications to traffic signal timing on arterial streets to improve the synchronization of the traffic signals and traffic circulation.

Respectfully submitted,

ROBERT J. BESTE
Public Works Director



By Craig Bilezerian
Engineering Manager

CONCUR

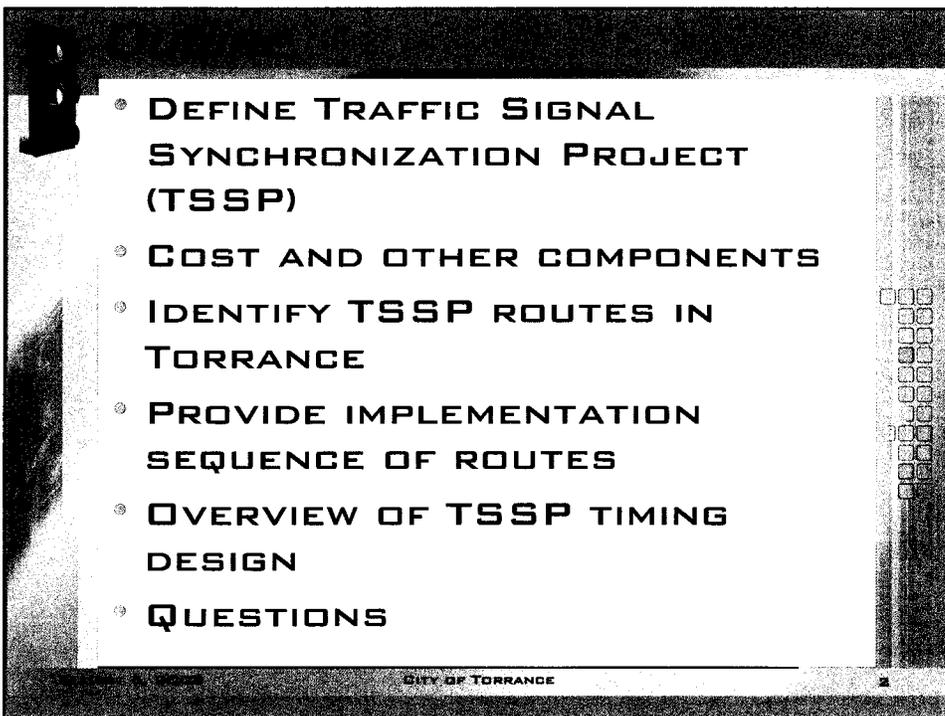
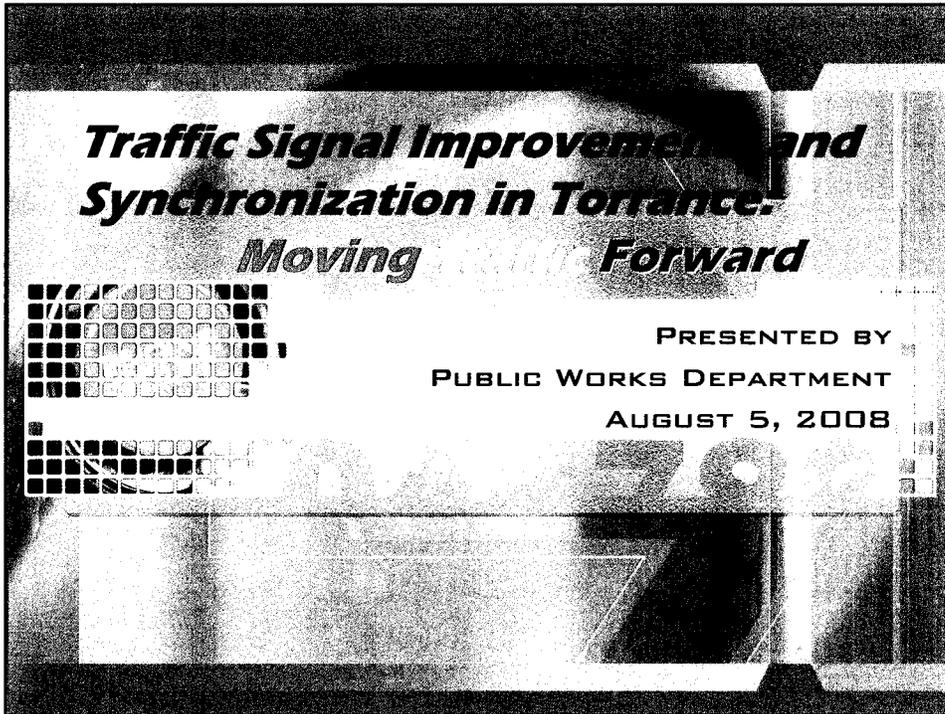


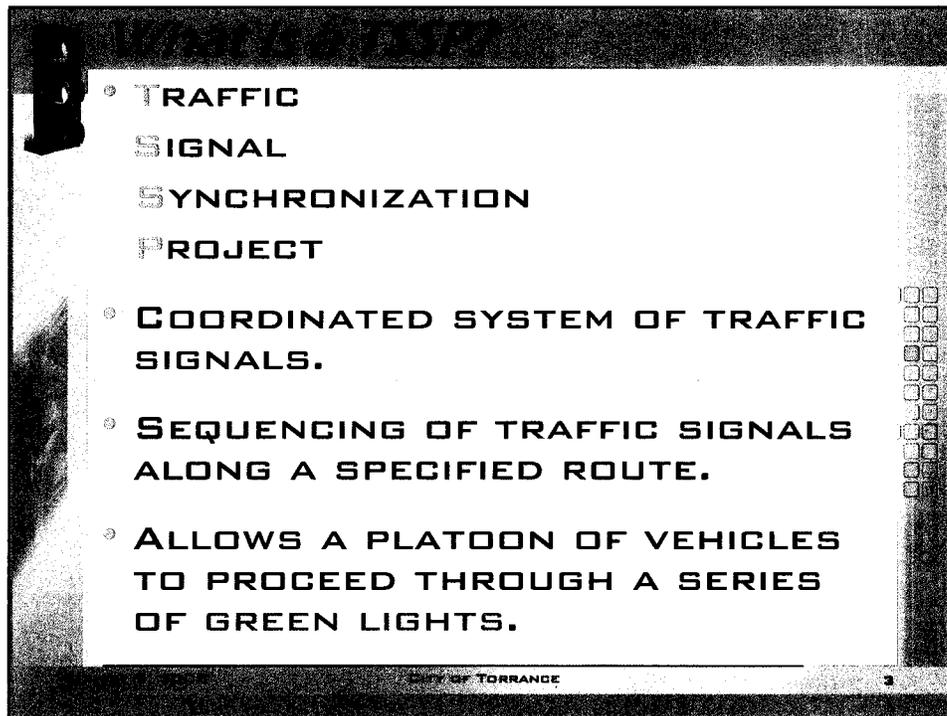
Robert J. Beste
Public Works Director



for LeRoy J. Jackson
City Manager

Attachment: A. Program Presentation (Limited distribution. Presentation is on file at the City Clerk's office.)

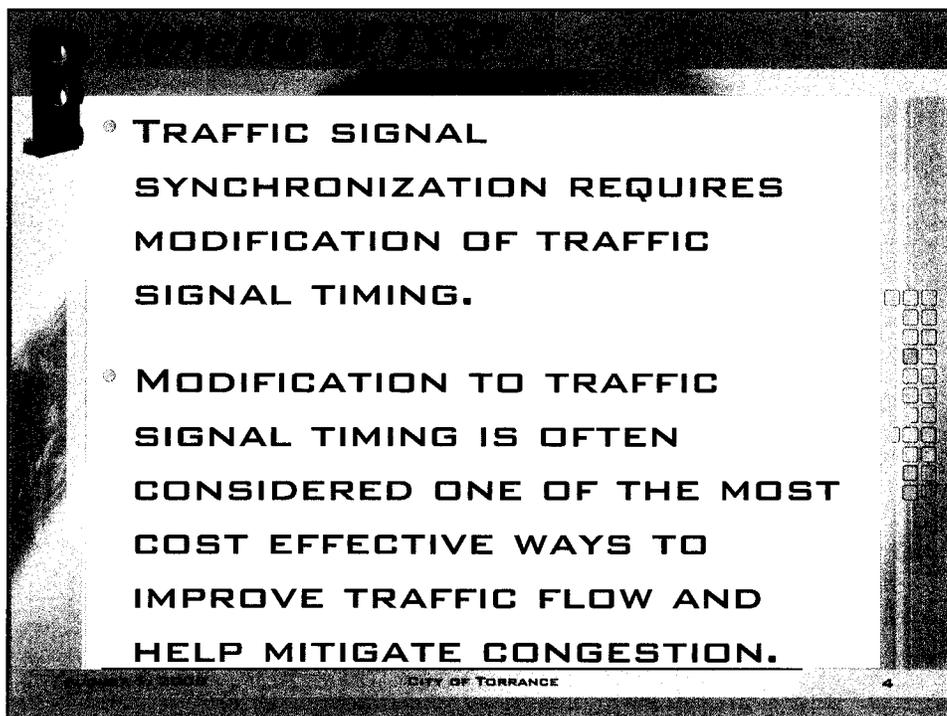




**TRAFFIC
SIGNAL
SYNCHRONIZATION
PROJECT**

- ◉ **COORDINATED SYSTEM OF TRAFFIC SIGNALS.**
- ◉ **SEQUENCING OF TRAFFIC SIGNALS ALONG A SPECIFIED ROUTE.**
- ◉ **ALLOWS A PLATOON OF VEHICLES TO PROCEED THROUGH A SERIES OF GREEN LIGHTS.**

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**TRAFFIC SIGNAL
SYNCHRONIZATION REQUIRES
MODIFICATION OF TRAFFIC
SIGNAL TIMING.**

- ◉ **MODIFICATION TO TRAFFIC SIGNAL TIMING IS OFTEN CONSIDERED ONE OF THE MOST COST EFFECTIVE WAYS TO IMPROVE TRAFFIC FLOW AND HELP MITIGATE CONGESTION.**

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Benefits of TSSP (Continued)

- **REDUCES:**
 - TRAVEL TIME
 - 'STOP AND GO' DRIVING
 - AIR EMISSIONS
 - VEHICLE 'WEAR AND TEAR'
 - RED-LIGHT RUNNING

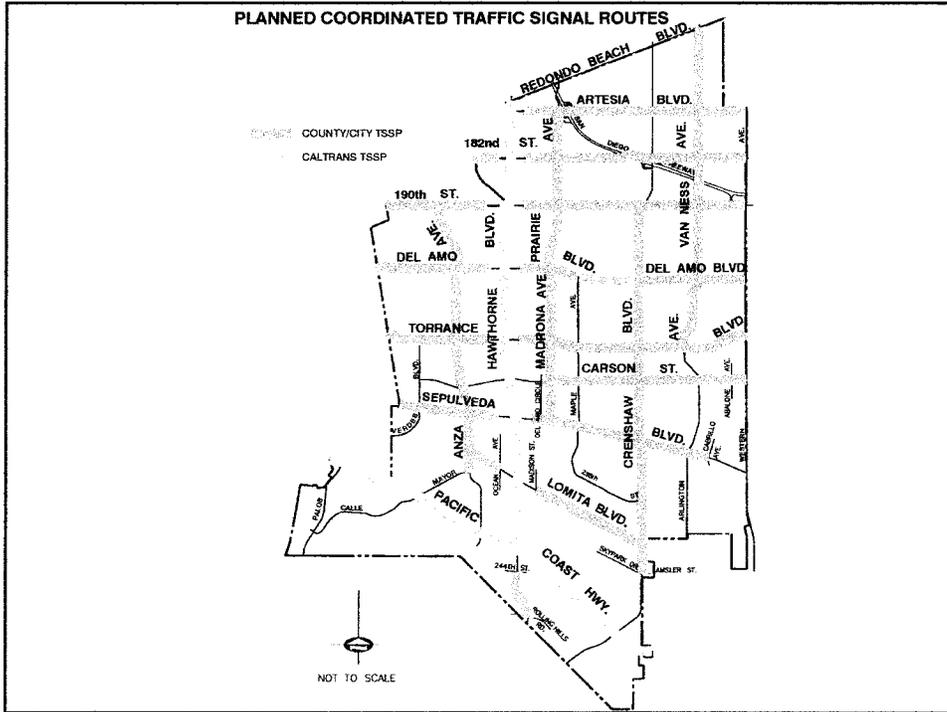
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Estimated Cost & Components

- **APPROX. \$11 MILLION (FUNDED)**
- **COMPONENTS:**
 - INTERCONNECT/WIRELESS TIME-BASED AND COMMUNICATION UNITS
 - CONTROLLER AND OTHER SIGNAL EQUIPMENT UPGRADES
 - LEFT/RIGHT TURN LANES; RESTRIPIING TIMING MODIFICATIONS
 - PLANNED TRAFFIC MANAGEMENT CENTER

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Implementation Sequence

ARTERIAL	PLANNED COMPLETION
ARTESIA BL	COMPLETED
PRAIRIE AV/MADRONA AV	AUG 2008
CARSON ST	SEP 2008
SEPULVEDA BL	OCT 2008
CRENSHAW BL *	NOV 2008
LOMITA BL	DEC 2008
190 TH ST	JAN 2009
ANZA BL *	MAR 2009
TORRANCE BL	APR 2009
HAWTHORNE BL *	MAY 2009
182 ND ST *	OCT 2009
VAN NESS AV *	DEC 2009

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⑥ **COORDINATION WITH LOS ANGELES COUNTY.**

⑥ **LA COUNTY-FUNDED PROJECTS AIMED TO IMPROVE TRAFFIC FLOW ON A REGIONAL BASIS.**

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⑥ **DIFFERENT TIMING PATTERNS ARE ASSIGNED TO:**

- MORNING, MID-DAY, AND EVENING PEAK PERIODS
- OVERNIGHT PERIODS
- WEEKDAYS VS. WEEKENDS

⑥ **DIRECTION OF HIGHEST DEMAND IS DETERMINED.**

⑥ **CYCLE LENGTHS ARE STANDARDIZED TO ENHANCE COORDINATION OF ROUTES THAT CROSS EACH OTHER.**

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