

Metro Orange Line Canoga Ave. Extension Operating Plan

- Revised Draft -

Prepared by:
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Metro Orange Line Current Alignment

- Metro Orange Line Transitway is 14 miles in length and extends from the community of North Hollywood to the Warner Center employment District.
- Fourteen Orange Line Stations are situated along the current alignment.
- Park/ride lots are provided at seven of the fourteen Metro Orange Line stations.

Metro Orange Line Service Description

- Service is provided weekdays, Saturdays and Sundays.
- Span of Service is approximately 21 hours per day (3:44am until 12:06x).
- Four minute headways are provided during weekday peaks and 10 minute headway during midday and weekends.



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Metro Orange Line Service Description

- **Twenty-Seven buses are required to operate weekday peak service and 12 buses to operate midday and weekends.**
- **Average Daily Line patronage for May, 2009**
 1. **Weekday - 22,045**
 2. **Saturday - 13,360**
 3. **Sunday - 9,960**

Metro Orange Line Canoga Extension (Opening 2012)

- Metro Orange Line Canoga Extension is 4 miles in length and extends from the Canoga Station to Chatsworth Metrolink Station along a dedicated right-of-way.
- New Orange Line Stations are planned at Sherman Way, Roscoe Bl. , Nordhoff St. and Chatsworth Metrolink Station.
- Park/ride lots will be provided at Canoga, Sherman Way and Chatsworth Metrolink Stations.



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Metro Orange Line Canoga Extension (Opening 2012)

- **Service will be provided along the extension weekdays, Saturdays and Sundays.**
- **Span of Service will be approximately 21 hours per day (3:44am until 12:06x).**
- **Daily Boardings on Canoga Ave. Extension**
 1. **Weekday - 9,165 (EIR Projection)**
 2. **Saturday - 5,315 (sector estimate)**
 3. **Sunday - 3,950 (sector estimate)**



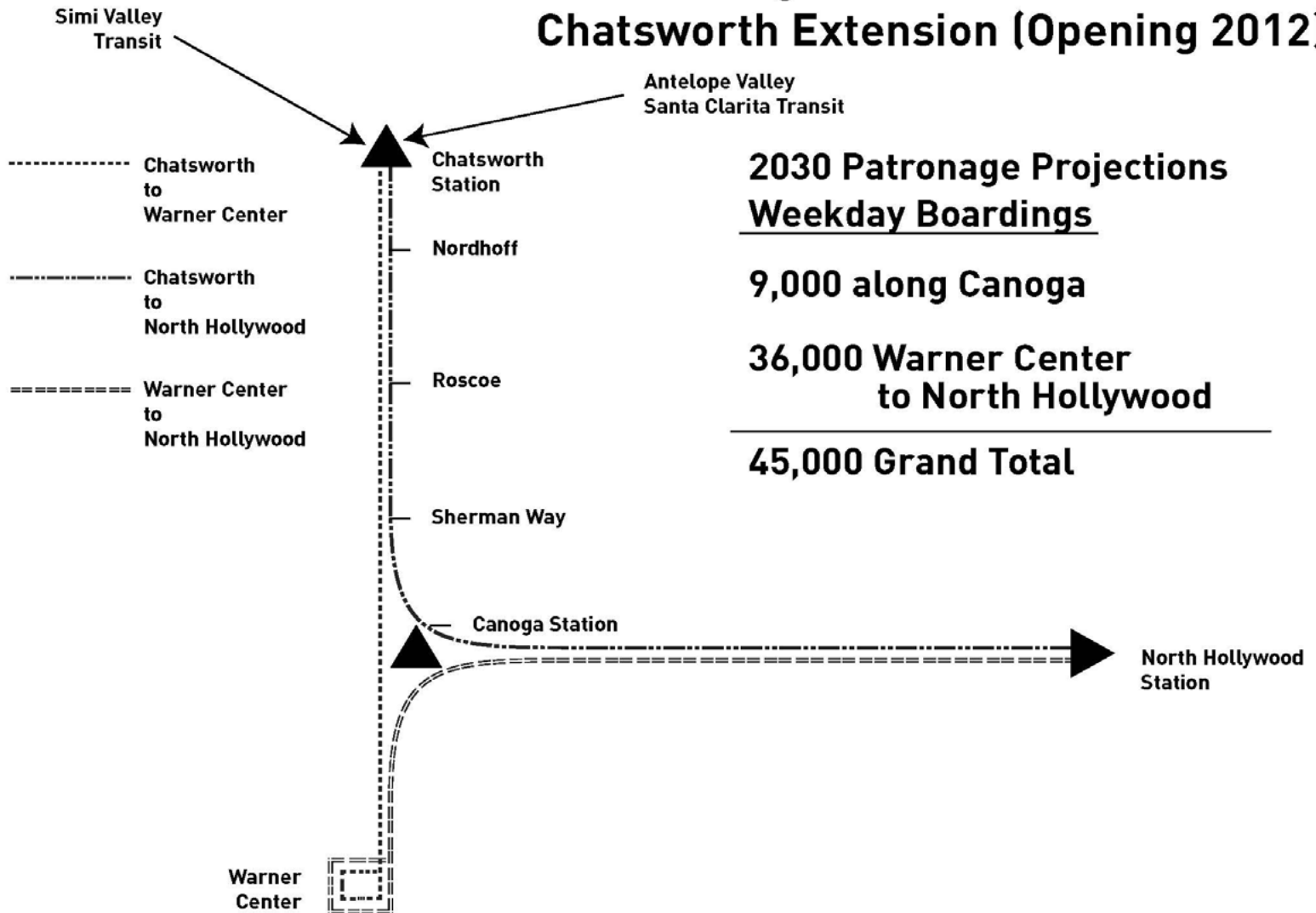
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Canoga Extension – Service Options

- Recommended Branch Route Option
 1. Metro Orange Line trips will depart North Hollywood Station and alternately serve Warner Center and Chatsworth Metrolink Station. Return service will be provided in the reverse direction.
 2. Metro Orange Line Shuttle service will be provided between Chatsworth Metrolink Station and Warner Center during weekday peak periods only to augment service described above.

Canoga Extension – Recommended Service Option

Metro Orange Line Chatsworth Extension (Opening 2012)



Canoga Extension – Service Options

- Recommended Branch Route Option
 1. Operate combined 4 minute peak headway along Metro Orange Line trunk and 8 minute headway along both Canoga Extension and Warner Center branch routes.
 2. Operate 8-16 minute headway on Orange Line Shuttle between Chatsworth Metrolink Station and Warner Center during weekday peak periods (combined 4 minute headway along Canoga extension- requires 5 additional buses).



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Pros and Cons of Recommended Option

Recommended Branch Route Option

1. Provides passengers with origins and/or destinations between Warner Center, Chatsworth and North Hollywood Stations with a convenient one bus ride.
2. Allows the most flexibility for scheduling service frequencies on the various branch routes to meet demand.



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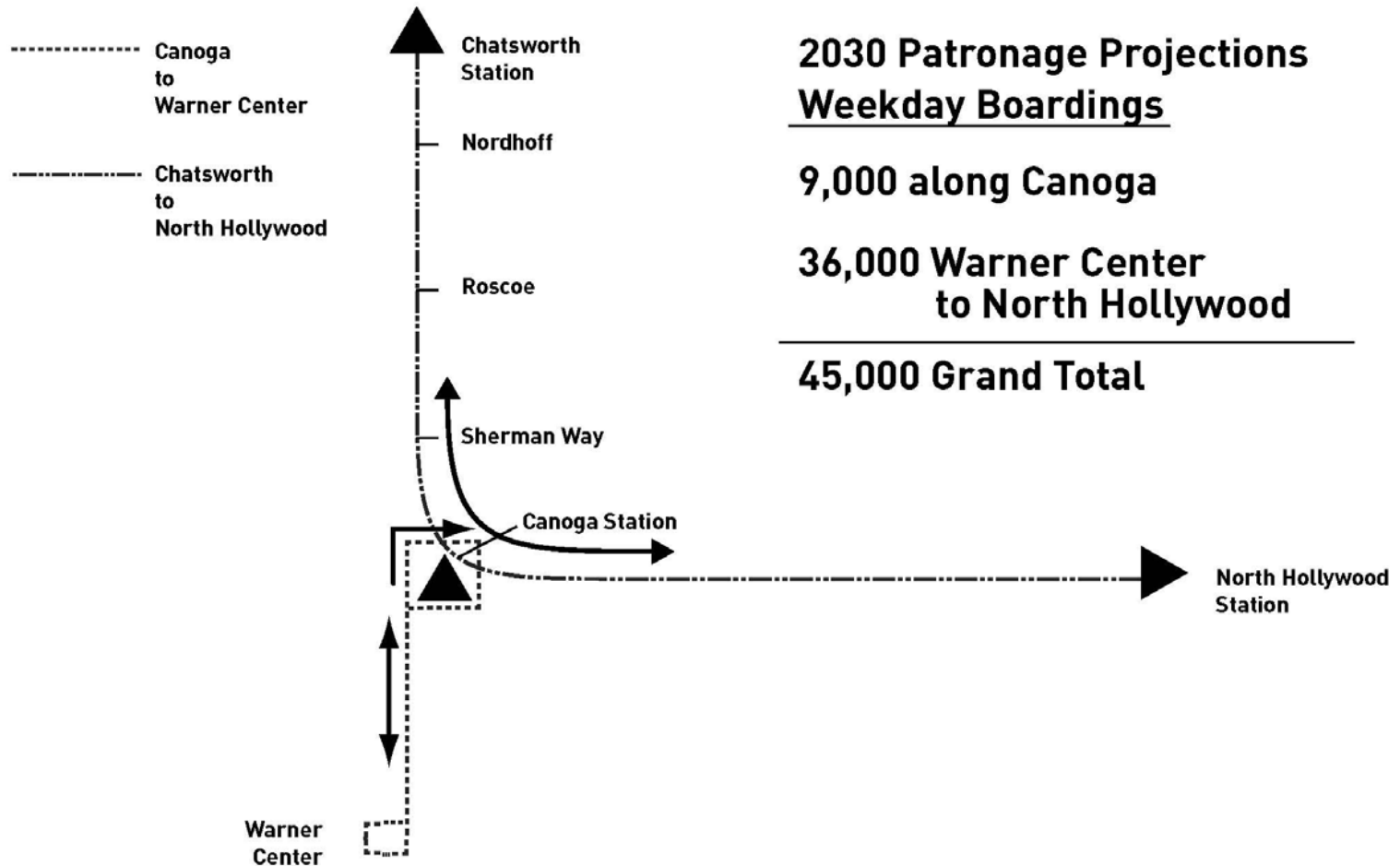
Canoga Extension – Service Options

- Alternative Route Option
 1. Operate all Metro Orange Line trips between North Hollywood Station and Chatsworth Metrolink Station. Return service will be provided in the reverse direction.
 2. Operate shuttle service between Canoga Station and Warner Center to augment service described above.

Canoga Extension – Alternate Service Option

Metro Orange Line Chatsworth Extension (Opening 2012)

Alternate Option



Canoga Extension – Service Options

- Alternative Route Option
 1. Operate 4 minute peak headway between North Hollywood and Chatsworth Metrolink Stations. (Requires 4 additional buses.)
 2. Operate 8 – 16 minute headway on Orange Line Shuttle between Canoga Orange Line and Warner Center during weekday peak and midday periods. (Requires additional 2 buses).



Pros and Cons – Alternate Route Option

Alternative Route Option

1. Frequency of service provided along Canoga Av. will be significantly higher than required to accommodate passenger demand.
2. Passengers traveling between Chatsworth Station and Warner Center will be required to transfer.
3. Requires more revenue service hours to route all trips to travel between Chatsworth & North Hollywood Stations.



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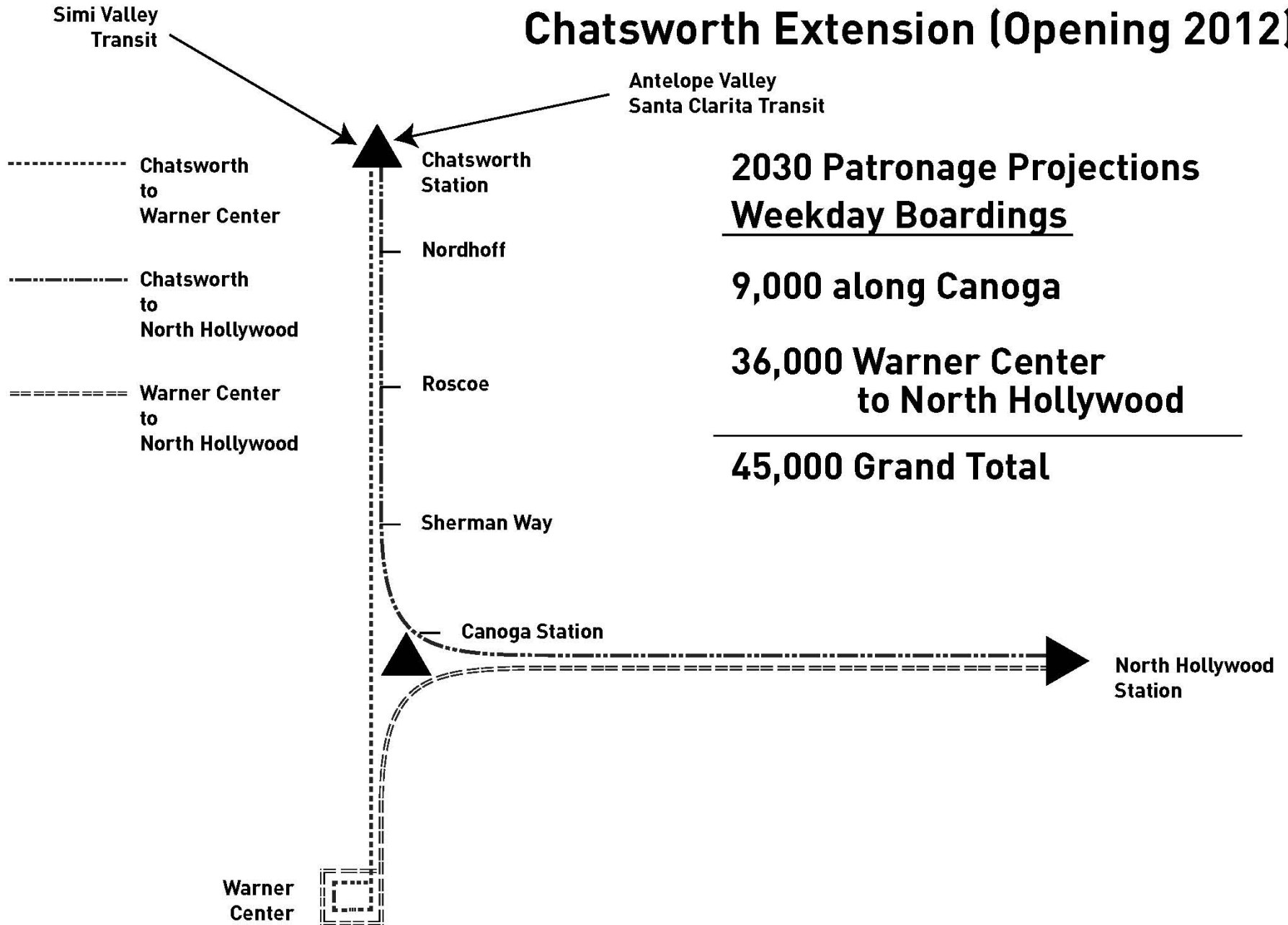
Projected Orange Line Boardings for Year 2030

<u>Origin</u>	<u>Destination</u>	<u>Projected Boardings</u>
North Hollywood	Warner Center	36,000
Canoga Station	Chatsworth Station	9,000
Total		45,000

Projected Warner Center Boardings Year 2030

<u>Origin</u>	<u>Destination</u>	<u>Projected Boardings</u>
Chatsworth Station	Warner Center	1,450 – 2,900
Canoga Station	Warner Center	1,500 – 2,000
Total Boardings		2,950 – 4,900

Metro Orange Line Chatsworth Extension (Opening 2012)



Planned Headway Improvements for East / West Bus Service

<u>Line</u>	<u>Name</u>		<u>Station to be Served</u>
152	Roscoe Bl.		Roscoe
158	Devonshire-Woodman		Chatsworth
163	Sherman Way		Sherman Way
164	Victory Bl.		Canoga
166	Nordhoff St.		Nordhoff
167	Plummer – Coldwater		Chatsworth
168	Lassen St.		Chatsworth



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Planned Headway Improvements for East / West Bus Service

<u>Line</u>	<u>Name</u>	<u>Station to be Served</u>
169	Saticoy St.	Sherman Way *
244	De Soto Av.	Chatsworth
245	Topanga Canyon Bl.	Chatsworth
353	Roscoe Bl. - Limited	Roscoe
363	Sherman Way - Limited	Sherman Way
364	Nordhoff St.	Nordhoff
* Note:	To be determined	



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Weekday headway improvements require 47 total buses.

- Draft - Revenue Service Hour Impacts

Metro Orange Line Revenue Service Hours

<u>OPTIONS</u>	<u>DX</u>	<u>SA</u>	<u>SU</u>	<u>ANNUAL</u>	<u>DIFF</u>
CURRENT	315	184	184	100,656	--
RECOMMENDED #	400	210	210	125,100	+ 24,444
ALTERNATIVE @	415	240	240	132,225	+ 31,569

Note: 315 rsh current; 35 rsh for Canoga Ext ; & 50 rsh for peak hr Shuttle

@ Note: 315 rsh current; 70 rsh for Canoga Ext; & 30 rsh for peak hr. Shuttle



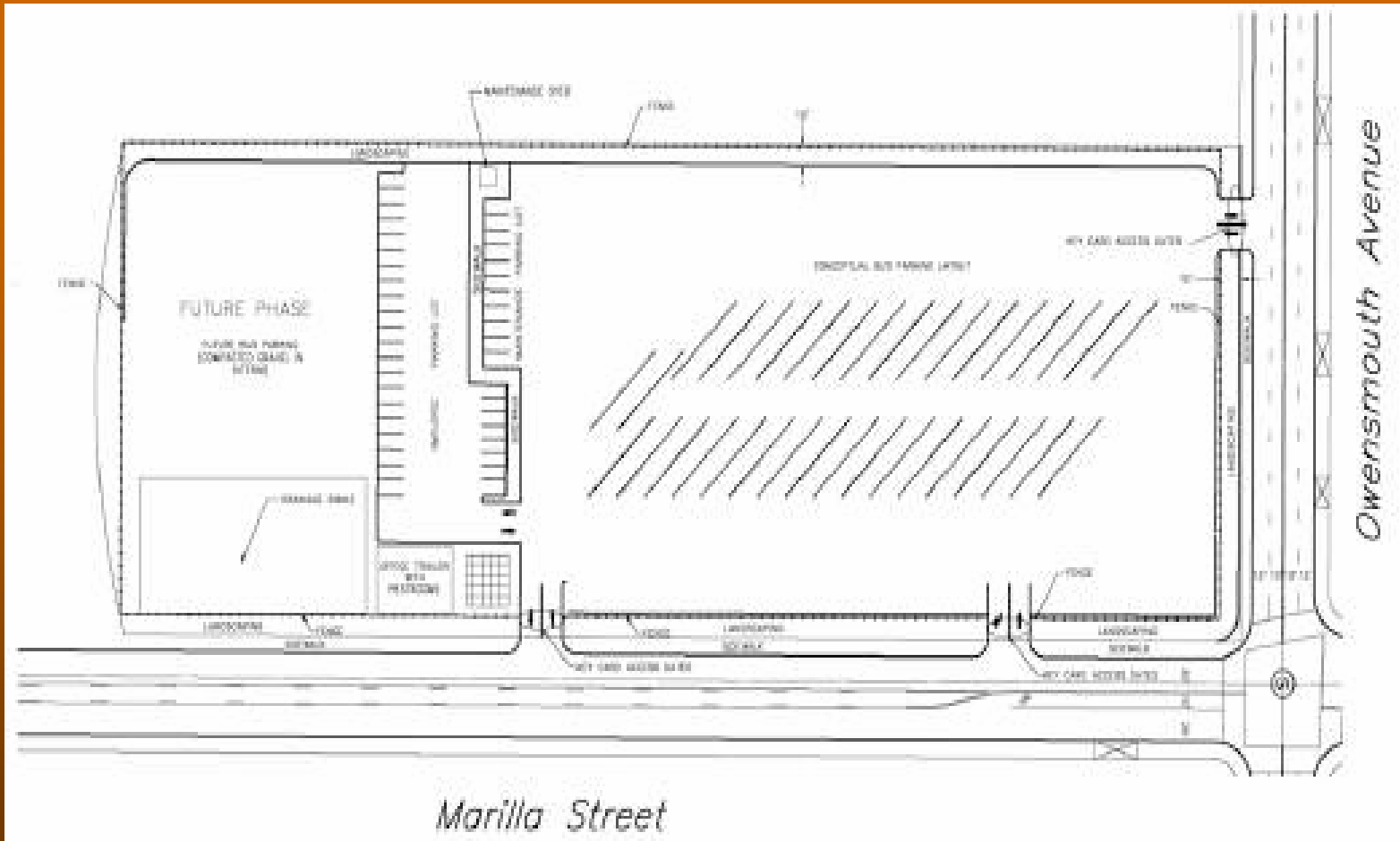
- Assumes current headways and service levels -

Proposed Auxiliary Bus Storage Facility

Construct bus storage facility at Marilla St. and Canoga Ave.

- Stores approximately 32 transit buses.
- Provides on-site automobile parking for bus operators and mechanics.
- Provides bus operator and mechanic office and lounge.
- Provides storage area for bus maintenance supplies.
- Provides operator restrooms.

Proposed Auxiliary Bus Storage Facility



Orange Line Vehicle Operations Plan

- Requires 3 additional Vehicle Operations Supervisors to cover AM and PM shifts at Chatsworth Station.
- Requires 2 additional Vehicle Operations mobile units equipped with ATMS.
- Monitor Orange Line operations at Chatsworth Station and along Canoga Ave. transitway.
- Establish emergency bus detours along Canoga Ave. route segment and procedures for safely entering and exiting the busway from all stations.

Orange Line - Bus Operator Training Plan

- Familiarize operators with Canoga Ave. route segment and turnaround loops at Chatsworth and Warner Center Stations.
- Inform operators of safe driving speeds through intersections and along Canoga Ave. transitway.
- Locate potential safety hazards along the Canoga transitway and devise procedures for minimizing pedestrian and vehicular accidents.



Metro Orange Line Safety Plan

- Inspect Canoga Transitway to determine safe operational speed limits.
- Identify potential conflicts with automobiles and pedestrians and suggest corrective action.
- Suggest signage and traffic signage improvements.
- Suggest other changes as required.

Metro Orange Line Implementation Schedule

Project Milestones for Summer 2012

- Complete construction of Canoga Ave. Transit Way.
- Conduct Non-Revenue Testing for two to four weeks.
- Host Grand Opening Celebration.
- Commence operation of revenue service.

Metro Orange Line Canoga Extension

Questions or comments.