Late Night Transit Service Planning
Service Analysis
Recommended Improvement Concepts

Late Night Working Group

SAN FRANCISCO COUNTY TRANSPORTATION AUTHORITY
December 7, 2016
Service Planning Overview

Service Planning Steps:

✓ Establish Service Planning Guidelines
✓ Complete Demand Analysis
✓ Complete Existing Service Analysis
✓ Identify Initial Improvement Concepts
→ Refine and Prioritize Improvement Concept Recommendations
   → Develop route maps
   → Estimate operating costs
   → Consider implementation challenges and outreach needs
   → Vet with transit operators
   → Score and prioritize into tiers based on benefit, cost, challenges

افظ، Funding and Implementation Strategy
## Recommendations: Muni

<table>
<thead>
<tr>
<th>Tier</th>
<th>Concept</th>
<th>Description</th>
<th>Service Hour Cost (Annual)</th>
<th>Change Type</th>
<th>Ease of Implementation</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Muni 6A Route 91</td>
<td>Route split into 91W (19th Ave to Mission/San Jose) and 91E (Francisco &amp; Richardson to West Portal)</td>
<td>Cost-neutral</td>
<td>Expanded coverage / operational improvement</td>
<td>Low</td>
</tr>
<tr>
<td></td>
<td>Muni 2 Route 38</td>
<td>Increase frequency to 15-minute headway</td>
<td>4,380 service hours</td>
<td>Frequency Increase</td>
<td>High</td>
</tr>
<tr>
<td></td>
<td>Muni 7 Route 94-L</td>
<td>Route extension to Fisherman’s Wharf (Jones &amp; Jefferson)</td>
<td>1,460 service hours</td>
<td>Expanded coverage</td>
<td>High</td>
</tr>
<tr>
<td>2</td>
<td>Muni 4 Route 91</td>
<td>Route extension to 14-Mission at San Jose/Mission via Daly City BART</td>
<td>1,460 service hours</td>
<td>Expanded coverage</td>
<td>Moderate</td>
</tr>
<tr>
<td>3</td>
<td>Muni 1 Route 14</td>
<td>Increase frequency to 12-minute headway</td>
<td>2,290 service hours</td>
<td>Frequency Increase</td>
<td>High</td>
</tr>
<tr>
<td></td>
<td>Muni 5 Route 91</td>
<td>Route modification to serve M-Oceanview daytime route along Randolph instead of Ocean Ave to West Portal</td>
<td>Cost-neutral</td>
<td>Expanded coverage</td>
<td>Low</td>
</tr>
</tbody>
</table>

Note: Either Muni 6 or Muni 4/5 should be selected.
Top Tier Recommendations: Muni 91-Owl Split

- Split route into 91W and 91E
- Extend 91W to Daly City
- Benefits: Improve operations and reliability. Enhance regional connections.
- Operating Cost Estimate: Cost-neutral

Map showing route modifications and benefits analysis.
Top Tier Recommendations: Muni L-Owl Extension

- Extend L-Owl from Ferry Building to Fisherman’s Wharf
- Benefits: Serve concentration of late-night jobs along waterfront
- Operating Cost Estimate: $286,000/year
Top Tier Recommendations: Muni 38-Geary Increased Frequency

- Increase 38-Geary late-night headway from 30 mins to 15 mins
- Frequency would match 14-Mission, Muni’s other highest-ridership route
- Benefits: More frequent service for high-ridership route
- Operating Cost Estimate: $858,000/year
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<tbody>
<tr>
<td>1</td>
<td>AC5A</td>
<td>Truncate the 800 at Berkeley Amtrak, extend 802 to Richmond BART and Hilltop Mall via San Pablo. Provide 30-minute daily frequency on 800, 60-minute daily frequency on 802.</td>
<td>Cost-neutral</td>
<td>Expanded coverage / operational improvement</td>
<td>Moderate</td>
</tr>
<tr>
<td></td>
<td>Routes 800/802</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>AC6</td>
<td>Route 801</td>
<td>Reshuffle resources to provide 30-minute frequency on 801 full length of route on weekends</td>
<td>Cost-neutral</td>
<td>Frequency changes</td>
<td>High</td>
</tr>
<tr>
<td>2</td>
<td>AC2</td>
<td>Extend route past Richmond BART to Hilltop Mall via 23rd Street (weekdays only or daily)</td>
<td>1,430-2,000 service hours</td>
<td>Expanded coverage</td>
<td>Moderate</td>
</tr>
<tr>
<td></td>
<td>Route 800</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>AC3</td>
<td>Route 800</td>
<td>Reallocation resources throughout the week to provide 30-minute frequency on 800 Monday-Saturday, 60-minute frequency on Sundays</td>
<td>1,248 service hours</td>
<td>Frequency changes</td>
<td>High</td>
</tr>
<tr>
<td>AC4</td>
<td>Route 800</td>
<td>Extend 800 to 24th Street BART in the Mission on weekdays</td>
<td>1,430 service hours</td>
<td>Expanded coverage</td>
<td>Moderate</td>
</tr>
<tr>
<td>3</td>
<td>AC1</td>
<td>Increase frequency to 30 minutes on weekdays</td>
<td>4,290 service hours</td>
<td>Frequency Increase</td>
<td>High</td>
</tr>
<tr>
<td></td>
<td>Route 800</td>
<td></td>
<td></td>
<td></td>
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Note: if concept AC5 is implemented, AC1, AC2, and AC3 are null concepts as they are included in AC5. AC2 and AC3 should be considered if AC5 cannot be implemented. AC6 should be implemented together with AC3 or AC5 to maintain timed transfers between the 800 and 801 in Downtown Oakland.
Top Tier Recommendations: AC Transit 800/802 Modification

- Truncate 800 at Berkeley Amtrak
- Extend 802 to Richmond Hilltop Mall
- 30-minute daily 800 frequency, 60-minute daily 802 frequency

Benefits:
- Improve weekday frequency on busiest part of 800 route
- Serve concentration of late-night workers north of Richmond BART
- Improve reliability with shorter routes

Operating Cost Estimate: Cost-neutral
Top Tier Recommendations: AC Transit 801 Resource Reallocation

- Reallocate weekend 801 service to provide 30-minute headways for entire route
  - Current weekend headways: 20 min to Bay Fair, 60 mins to Fremont

- Benefits:
  - Provides additional weekend service to high-demand stops beyond Bay Fair
  - Would provide timed transfers with modified 800/802 concept

- Operating Cost Estimate: Cost-neutral
## Recommendations: SamTrans

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<td>1</td>
<td>SamT1 ECR</td>
<td>Daily pilot of all-night service on the ECR between Daly City BART and Millbrae BART</td>
<td>2,920 service hours</td>
<td>Expanded coverage</td>
<td>High</td>
</tr>
<tr>
<td></td>
<td>SamT3 Route 120</td>
<td>Daily pilot of all-night service on the 120 route</td>
<td>4,380 service hours</td>
<td>Expanded coverage</td>
<td>High</td>
</tr>
<tr>
<td>2</td>
<td>SamT2 ECR</td>
<td>Daily pilot of all-night service on the ECR between Transbay Terminal and Millbrae BART via Daly City BART (express on I-280)</td>
<td>4,380 service hours</td>
<td>Expanded coverage</td>
<td>Moderate</td>
</tr>
</tbody>
</table>

Note: Only one variant of SamTrans concepts 1 or 2 should be selected.
Top Tier Recommendations: SamTrans ECR Pilot

- Pilot daily all-night ECR service from Daly City BART to Millbrae at 60 min headways

- Benefits:
  - Serves concentrations of late-night jobs and worker homes
  - Improves regional connections to Muni and SamTrans 397

- Operating Cost Estimate: $289,000/year
Top Tier Recommendations: SamTrans 120 Pilot

- Pilot daily all-night 120 service in Daly City

- Benefits:
  - Serves concentrations of late-night jobs and worker homes
  - Adds late-night service to SamTrans most productive daytime route
  - Improves regional connections to Muni and potential SamTrans ECR service

- Operating Cost Estimate: $434,000/year
Next Steps

- Finalize recommendations
- Work with operators and Working Group on funding and implementation strategy