



2006 LADOT PEDESTRIAN COUNTS AT FARMDALE AND EXPOSITION

TRAFFIC COUNT SUMMARY

| STREET: North/South FARMDALE AV | | | | | City of Los Angeles int of Transportation (Rev Apr 92) |
|--------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------|----------------------------------------------------------------------|--------------------------------|-----------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| East/West EXPOSITION BL N / | RDWY | | | | • |
| Day: FRIDAY | Date: JAN 20, 2006 | Weather: | CLEAR | | |
| Hours: 7-10 AM 3-6 PM | | | | | |
| School Day: YES | District: SOUTHER | RN I/S CODE | 2697227400 | | |
| N/B | S/B | E/B | _ W, | <u>/B</u> | |
| WHEELED 13 | 30 | 26 | : | 31 | |
| BIKES 1 BUSES 0 | 5 0 | 4 0 | | 2 1 | |
| N/B TIME | S/B TIME | E/B TIME | _w | B TIME | |
| AM PK 15 MIN 80 8.00 | 68 7.30 | 36 8.00 | 11 | 16 7,30 | |
| PM PK 15 MIN 70 3.15 | 66 5.15 | 64 4.30 | ţ | 50 4.45 | |
| AM PK HOUR 271 7.30 | 205 7.15 | 110 7.15 | 35 | 7.00 | |
| PM PK HOUR 199 3.00 | 223 4.30 | 222 3.45 | . 16 | 69 4.00 | |
| NORTHBOUND Approach | SOUTHB | OUND Approach | | TOTAL | XING S/L XING N/L |
| Hours Lt Th Rt 7-8 41 140 34 8-9 36 140 36 9-10 14 77 9 3-4 33 131 35 4-5 30 100 21 5-6 23 89 24 | Total Hours 215 7-8 212 8-9 100 9-10 199 3-4 151 4-5 136 5-6 | Lt Th Rt 17 161 21 9 91 8 10 63 7 23 166 14 34 163 13 22 189 5 | Total 199 108 80 203 210 216 | N-S 414 320 180 402 361 352 | Ped Sch Ped Sch 0 50 0 21 1 61 3 0 1 9 2 0 5 115 6 84 4 3 6 0 1 0 5 0 |
| TOTAL 177 677 159 | 1013 TOTAL | 115 833 68 | 1016 | 2029 | 12 238 22 105 |
| EASTBOUND Approach | WESTBO | OUND Approach | | TOTAL | XING W/L XING E/L |
| Hours Lt Th Rt 7-8 | Total Hours 81 7-8 89 8-9 43 9-10 177 3-4 216 4-5 210 5-6 816 TOTAL | Lt Th Rt 60 227 65 43 161 39 30 84 24 48 62 26 52 93 24 45 54 18 | Total 352 243 138 136 169 117 | E-W 433 332 181 313 385 327 | Ped Sch Ped Sch 3 285 3 84 6 242 2 61 7 19 0 13 14 599 6 78 4 44 13 12 5 12 3 1 |
| 101AL 301 400 300 | OIO TOTAL | 270 001 190 | 1100 | 1971 | 03 1201 21 249 |

2006 LADOT TRAFFIC COUNTS AT FARMDALE AND EXPOSITION



City Of Los Angeles Department Of Transportation MANUAL TRAFFIC COUNT SUMMARY

| STREET: North/South | CRUINSHA | WBL | | | | |
|------------------------|----------------|-----------------|----------------|-----------|------------|------|
| Enst/West | EXPOSITI | ON BL | | | | |
| Day: MO | NDAY | Date: | August 14, 200 | Weather: | CLEAR | |
| Hours: 7-10 | MAN 3-6PM | | | | | |
| School Day: | YES | District: | HOLLYWOO | D N2 CODE | 1840026970 | |
| | 5145 | | 1 | 1445 | W/D | |
| DUAL- | N/B | - | S/I3 | E/B | W/B | |
| WHEELED | 136 | | 167 | .` 13 | 90 | |
| BIKES | 4 | | 0 | 8 | 14 | |
| Buses | 89 | | 51 | 0 | 1 | |
| | | | | | | |
| | N/I ENN | AR . | S/B DMB | E/B TIM | E W/B | TIME |
| AM PK IS MIN | 505 7. | 30 | 300 7.30 | 44 8,0 | 0 221 | 8,15 |
| PM PK IS MIN | 404 <i>S</i> . | 30 | 549 4,30 | 64 5,1 | 5 119 | 5.45 |
| AM PK HOUR | 1945 7. | 30 _į | 1116 7.15 | 152 7,4 | 5 796 | 7.30 |
| PM PK HOUR | 1575 5. | 00 ' | 1820 4,30 | 199 4.4 | 5 400 | 5.00 |

| NORTHBOUND Approach | SOUTHHOUND Approach | TOTAL | XING BU | XING N/L |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------|------------------------------------|----------------------------------------|
| Flours Lt Th Rt Total 7-8 37 1778 30 1845 8-9 61 1777 42 1880 9-10 36 1545 20 1602 3-4 28 1449 20 1497 4-5 http://www.35 1450 38 1523 5-6 71 1508 36 1575 TOTAL 228 9508 186 9922 | Hours Lt Th Rt Total 7-8 12 1075 6 1093 8-9 111 828 6 845 9-10 10 884 5 899 3-4 22 1381 38 1441 4-5 25 1658 5 1688 5-6 28 1733 0 1761 TOTAL 108 7559 60 7727 | N-S · 2938 2725 2501 2938 3211 3336 | Ped Sali 0 0 0 1 0 1 0 1 0 0 0 0 0 | Ped Seh 1 0 0 0 0 0 0 0 0 0 0 0 |
| | | - | | ************************************** |
| EASTBOUND Approach | WESTBOUND Approach | TOTAL | XING W/L | XING E/L |

(Rev Apr 06)



MTA BOARD MEETING **DECEMBER 4, 2003**

Metropolitan Transportation Authority

One Gateway Plaza

Los Angeles, CA 90012-2952 ACTION:

SUBJECT: GRADE CROSSING POLICY FOR

LIGHT RAIL TRANSIT (LRT)

APPROVE LRT GRADE CROSSING POLICY AND SPECIFIC

GRADE CROSSING RECOMMENDATIONS FOR THE

EXPOSITION LIGHT RAIL TRANSIT PROJECT

RECOMMENDATION

APPROVE:

A) The attached MTA Grade Crossing Policy for Light Rail Transit (Attachment A);

B) The attached Evaluation of Exposition Light Rail Transit Project (Vermont Avenue to Venice Boulevard Segment) with the Proposed MTA Grade Crossing Policy (Attachment B);

ISSUE

In September 2003, the Board considered the MTA Grade Crossing Policy for Light Rail Transit and the Exposition Grade Crossing Analysis. The Board approved the addition of a grade separation at La Brea Avenue and La Cienega Boulevard on the Exposition Light Rail Transit project, but requested that staff work with the City of Los Angeles and other agencies/jurisdictions to resolve specific issues concerning the policy, prior to Board adoption.

• Revisions to LRT Grade Crossing Policy- Staff has slightly revised the draft LRT Grade Crossing Policy from the version that was presented to the Board at its September meeting. The major change is that the Initial Screening graph has been adjusted so that a greater number of intersections would fall into the Milestone 2 (more detailed analysis) category. The draft policy also now calls for more consideration of safety measures and adds detail for operations and safety analysis.

Revisions to Exposition Grade Crossing Analysis- With respect to specific grade crossings on the Exposition LRT Project, the analysis does not call for any additional grade separations at this time between Vermont and Venice than previously approved by the MTA Board at its September meeting. However, there were several

intersections where the analysis identifies supplemental operating, safety and geometric measures that should be included in the preliminary engineering design. These crossings include Vermont, Western, Arlington and Crenshaw.

The analysis indicates that a reconfiguration of the Jefferson Boulevard crossing may be possible that would move the intersection closer to La Cienega Boulevard and allow the Jefferson crossing to be included under the aerial grade separation that has already been approved for La Cienega. MTA staff will work with LADOT and Culver City to determine if such a reconfiguration will be cost effective.

Venice Boulevard Analysis- In response to a request from the City of Culver City, supplemental analysis was conducted to determine whether a future extension of the line would require a grade separation at Venice Boulevard. The analysis concluded that such a grade separation would be required at Venice Boulevard when the Expo Line is extended in the future to cross that street. Because of the close proximity of Washington and National Boulevards to Venice Boulevard, a future grade separation at Venice will require grade separations at Washington and National at that time as well due to engineering design requirements. Presently, the policy indicates that Washington and National Boulevards could operate in an at-grade configuration, based on operational and traffic criteria. There is enough width in the Exposition right of way to allow for the staging of additional grade separations at Washington and National Boulevards in the future. Staff will continue to work with the cities of Culver City and Los Angeles to determine the most cost effective design strategy to accommodate these future improvements.

<u>City of Los Angeles Issues</u>: Staff has met with the City of Los Angeles Department of Transportation staff regarding issues raised with regard to the policy. The revised policy addresses the concerns of the City of Los Angeles and the staff of that city now supports the overall policy and Exposition project recommendations, with the provisions identified above and in the detailed analysis documents.

City of Culver City Issues: The City of Culver City submitted a letter on October 16, 2003 raising concerns with regard to the Grade Crossing Policy and stating the city's position that no at-grade light rail crossings are permitted under the City's General Plan. Staff has met with City of Culver City; however, resolution of this issue has not yet been achieved. The revised Grade Crossing Policy provides more detailed analysis of the intersections in Culver City and recommends a future grade separation at Venice, National and Washington Boulevards when the line is extended west.

POLICY IMPLICATIONS

The MTA does not currently have a policy on light rail transit grade separations. Approval of a policy would provide a standard by which future corridors will be able to more effectively plan for their projects.

OPTIONS

The Board could choose not to approve the proposed Grade Crossing Policy for LRT. Staff is not recommending this option, because the proposed Policy will provide MTA with good direction in future planning efforts. Also, the sources utilized to develop the proposed policy reflect the current "best practices" and provide a solid foundation for the proposed Policy. The proposed policy, prepared for the MTA by Korve Engineering, is based on guidelines taken from different sources including the Institute of Transportation Engineers, the Dallas Area Rapid Transit system and the California Public Utilities Commission. Specific safety guidelines were adapted from the Transportation Cooperative Research Board (TCRP) and the MTA Risk Management Department.

For the Exposition LRT Project Analysis, the Board could direct that staff include additional grade separations into the project. Staff is not recommending this option, because the technical analysis indicates that at-grade operation of the Exposition line will be possible at locations other than La Brea and La Cienega. With the exception of La Brea and La Cienga, the proposed Policy calls for at-grade designs at crossings to proceed at this time.

FINANCIAL IMPACT

Costs for the grade separation at La Cienega have been included in the current Exposition Light Rail Transit cost estimate of \$505 million. These costs do not include the grade separation at La Brea. Costs for the La Brea grade separation will be developed as a part of preliminary engineering and added to the project budget.

DISCUSSION

Grade Crossing Policy for LRT

The purpose of the proposed Grade Crossing Policy for LRT is to identify and address all of the principle concerns and trade-offs involved in grade separation and safety decision-making. The proposed policy recognizes that local, state and federal government officials are involved in the process as well as the communities along the light rail line and therefore, no policy can dictate the ultimate solution. The proposed Policy can, however, prioritize decision-making about grade separations and safety measures so that budget decisions about project cost can be made earlier in the process, when they have less impact on the project funding commitments and construction schedule.

In general, the proposed Policy follows a three-phase process: (1) Initial Screening; (2) Detailed Analysis; and (3) Verification. The Initial Screening relies on traffic volume and train frequency to sort the crossings into at-grade, grade-separated or further analysis required categories. Crossings requiring further analysis move into the detailed analysis phase and are studied for intersection geometry, queuing, intersection level of service and other issues. Based on these

studies, these crossings are then given a preliminary disposition of either at-grade or grade separation. In the verification phase, the PE level of design is completed and more detailed traffic volume and safety information may be compiled, in consultation with local jurisdictions, the PUC and local communities. Final determinations can be made at this point.

Exposition LRT Grade Crossing Analysis

Korve Engineering applied the methodology described above through the Initial Screening and Detailed Analysis phases, to the crossings along the Exposition LRT project between Vermont Avenue and Venice Boulevard (the Downtown to Exposition Park segment is being evaluated separately as a part of the Hill and Flower Street Downtown Alignment Assessment).

Korve evaluated the 14 highest-volume crossings and determined, after Milestone 1 analysis that one would require grade separation based on traffic volumes and train frequencies (La Cienega). Six other locations were taken into the Milestone 2 more detailed analysis. Out of this analysis, La Brea was recommended for grade separation based on queuing problems (cars stopped at the traffic light backing up into the right-of-way). For the other five, more detailed analysis indicated that at-grade solutions were possible based on expected train speeds at those locations, acceptable solutions to traffic/traffic safety issues, expected Levels of Service at the intersections and understanding that partial rather than full preemption was acceptable at several intersections.

City of Culver City Issues

A letter has also been received from the City of Culver City dated October 16, 2003 identifying concerns of that city regarding the policy. That letter states:

"The City is concerned that both the PE Drawings and the Grade Crossing Policy disregard our firm stance concerning at-grade and aerial crossings, as detailed in the Circulation Element of the Culver City General Plan and in City Council Resolution No. 2001-R063. The General Plan calls for no at-grade Light Rail Transit crossings and no aerial crossings adjacent to residential areas."

The letter from Culver City further states:

"Additionally, the City is concerned that the PE drawings, do not adequately address the eventual extension of the Mid City/Exposition Boulevard Light Rail Transit Project to Santa Monica and the future Venice Boulevard crossing."

In response to the concerns of the City of Culver City, additional analysis has been conducted for the two grade crossings located within the City limits of Culver City at Washington Boulevard and National Boulevard. Staff has also reviewed the future crossing of Venice Boulevard that will be required when the project is extended to the west.

This analysis has determined that the future crossing of Venice Boulevard will require grade separation and that such a grade separation will also require the grade separation of Washington

and National Boulevards, because of their close proximity to Venice Boulevard. Although no grade separation is called for at this time under the policy, the recommendation is that a grade separation be provided in the future, when the project is extended past Venice Boulevard to the west.

NEXT STEPS

Staff will incorporate recommendations approved by the Board into preliminary engineering for the project.

ATTACHMENTS

Attachment A Draft MTA Grade Crossing Policy for Light Rail Transit

Attachment B Evaluation of Exposition Light Rail Transit Project With Proposed MTA

Grade Crossing Policy

Prepared by: David Mieger, Director

Westside Area Planning

Steven Brye, Project Manager

Exposition Light Rail Transit Project

Anthony Loui, Project Manager

Exposition LRT Environmental Studies

James J. de la Loza, Executive Officer Countywide Planning and Development

Roger Snoble
Chief Executive Officer