

Decision No. 91887 JUN 3 1380

BEFORE THE PUBLIC UTILITIES COMMISSION OF THE STATE OF CALIFORNIA

Investigation for the purpose of establishing a list for the fiscal year 1980-81 of existing and proposed crossings at grade of city streets, county roads or state highways most urgently in need of separation, or projects effecting the elimination of grade crossings by removal or relocation of streets or railroad tracks, or existing separations in need of alteration or reconstruction as contemplated by Section 2452 of the Streets and Highways Code.

OII No. 61 (Filed November 30, 1979)

(Appearances are listed in Appendix A.)

OBINION

By its order dated November 30, 1979, the Commission instituted an investigation for the purpose of establishing the 1980-81 Railroad-Highway Grade Separation Priority List as required by Section 2452 of the Streets and Highways Code, which requires that by July 1 of each year the California Public Utilities Commission shall establish a priority list of those railroad grade separation projects, including the elimination of existing or proposed grade crossings, the elimination of grade crossings by removal or relocation of streets or railroad tracks, and the alteration or reconstruction of existing grade separations most urgently in need of separation or alteration. The list, based on criteria established by the

Commission, contains projects on city streets, county roads, and state highways which are not freeways as defined in Section 257 of the Streets and Highways Code. The list is furnished to the Department of Transportation (Caltrans) and the California Transportation Commission and those agencies, pursuant to the provisions of Sections 190 and 2453 of the Streets and Highways Code, allocate at least \$15,000,000 annually to those nominations in accordance with their priority on the list.

Funding for projects included on each annual priority list is provided through Section 190, and the basis for allocation is contained in Sections 2450-2461 of the Streets and Highways Code. On projects which eliminate an existing crossing, or alter or reconstruct an existing grade separation, an allocation of 80 percent of the estimated cost of the project is made with the local agency and railroad each contributing 10 percent. On other projects an allocation of 50 percent of the estimated cost of the project is made for a proposed crossing with the remaining 50 percent contributed by the local agency.

Following issuance by the Commission of an Amnual Grade Separation Priority List, applications to Caltrans for an allocation must be made no later than April 1 of each fiscal year. The requirements for filing an application for an allocation of grade separation funds are set forth in Title 21 (Public Works), Chapter 2, Subchapter 13 (Grade Separation Projects) of the California Administrative Code.

The allocation by the Transportation Commission is limited to that necessary to make the separation operable and the initial allocation of funds by the Transportation Commission is not to exceed the applicant's project cost estimate utilized by the Public Utilities Commission in establishing the annual separation priority list.

By Decision No. 90399 dated June 5, 1979 the Commission established the twenty-third priority list of 73 projects for the 1979-80 fiscal year, which will expire on June 30, 1980. A new priority list for the 1980-81 fiscal year is now required.

Public hearings were held in San Francisco and Los Angeles before Administrative Law Judge Daly, and the matter was submitted on March 26, 1980 upon the receipt of late-filed Exhibit 9 and opening and closing briefs, the latter being filed on April 15, 1980.

Copies of the Order Instituting Investigation were served upon each city, county, and city and county in which there is a railroad crossing, each railroad corporation involved, Caltrans, the California Transportation Commission, the League of California Cities, the County Supervisors Association, and other persons who might have an interest in the proceeding.

In response to the Order Instituting Investigation, various public bodies desiring to nominate crossings or separations for the 1980-81 priority list filed with the Commission the following information:

- A. For Existing or Proposed Crossings at Grade Nominated for Elimination by Proposed Separation and Grade Crossings Nominated for Elimination by Removal_or_Relocation of Streets or Railroad Tracks
 - l. Identification of crossing, including name of street or road, name of railroad, and crossing number.
 - 2. Twenty-four hour vehicular traffic count, or for proposed crossings, estimated ADT for 1980.
 - 3. Number of train movements for one typical day segregated by type, i.e., passenger, through freight, or switching.
 - 4. Vehicular speed limit and the maximum prevailing train speed.
 - Quantitative statement as to blocking delay at crossing, in minutes per day.

- 6. Distance on each side of the crossing to the nearest alternate routes, in feet.
- 7. A 10-year accident history of the number of vehicle-object and vehicle-vehicle accidents directly attributable to the presence of the grade crossing.
- 8. Width of the crossing in feet and in number of lanes.
- 9. Preliminary cost estimate for project with costs separated into right-of-way, engineering, and construction.
- 10. Statement as to need for the proposed improvement and agencies' willingness to pursue the project.
- 11. Any proposed crossing nominated for separation should be subtyped either:
 - A grade crossing is practical and feasible.
 - b. A grade crossing is not practical and feasible.
- 12. For grade crossing(s) nominated for elimination by removal or relocation of streets or tracks, the estimated cost of eliminating crossing(s) if grade separation facilities on the existing alignment of the street and railroad tracks were constructed.

B. For Grade Separations Proposed for Alteration

- Identification of crossing, including name of street or road, name of railroad, and crossing number.
- Twenty-four hour vehicle traffic count.
- 3. Number of train movements for one typical day segregated by type, i.e., passenger, through freight, or switching.
- 4. Description of existing and proposed separation structure with principal dimensions.
- 5. Type of alteration proposed.

vi

- 6. Preliminary cost estimate of project with costs separated into right-of-way, engineering, and construction.
- 7. A list and relative description of any of the following, if applicable:
 - Substandard highway width or height clearances.
 - b. Highway speed reduction due to alignment.
 - c. Railroad slow order due to structure.
 - d. Highway load limit due to structure.
- A 10-year history of the number of vehicle accidents at or near the structure.
- 9. A detailed statement describing acute structural deficiencies, if any, and the probability of structural failure.
- Statement as to the need for the proposed improvement and agencies' willingness to 10. pursue the project.

Upon receipt of the requested information, the staff applied a formula adopted in determining the 1979-80 Grade Separation Priority List, and introduced the results thereof in Exhibit 2.

For the purposes of determining the 1980-81 Grade Separation Priority List, the staff used the following criteria which are similar to those used in the 1979-80 proceeding:

$$P = \frac{\nabla \times T}{C \times 24} + SCF$$

Where:

P = Priority Index Number
V = Average 24-Hour Vehicular Volume
C = Total Costs of Separation Project

(In Thousands of Dollars)

T = Average 24-Hour Train Volume

SCF = Special Conditions Factor

For Existing or Proposed Crossings Nominated for Separation or Elimination

SCF = G1 + G2 + G3 + G4 + G5 + G6 + G7

Where:		Points Possible
Gl =	Vehicular Speed Limit	0- 5
G2 =	Railroad Prevailing Maximum Speed	0- 5
G3 🛥	Crossing Geometrics	0- 5
G4 =	Crossing Blocking Delay	0-10
G5 ≈	Alternate Route Availability	0-5
	Accident History	0-20
	Irreducibles	0-15
	Total Possible	0-65

For Separations Nominated for Alteration or Reconstruction

SCF = S1 + S2 + S3 + S4 + S5 + S6

Where:	Points Possible
S1 = Width Clearance S2 = Height Clearance	0-10 0-10
S3 = Speed Reduction or Slow Order S4 = Load Limit	
S5 = Accidents at or Near Structure	0-10
S6 = Probability of Failure and Irreducibles	0-10
Total Possible	0-50

Points in each category were assigned according to the following schedule:

Grade Crossings

Gl = Vehicular Speed Limit

WPH	<u>Points</u>	
0-30	0	
31-35	ĺ	
36~40	2	
41-45	3	
46-50	4	
51-55	5	

G2 = Railroad Maximum Speed

MPH	Points
0-25	0
26-35	1
36-45	2
46-55	3
56-65	4
66 +	5

G3 = Crossing Geometrics

0-5 points based on relative severity of physical conditions.

G4 = Crossing Blocking Delay, Total Minutes per Day

Minutes	Points
0-20	0
21-40	· 1
41-60	2
61-80	3
81-100	4.
101-120	5
121-140	6
141-160	7
161-180	8
181-200	9
201 +	10

G5 = Alternate Route Availability

Distance-feet	Points
0-1,000	0
1,001-2,000	1
2,001-3,000	2
3,001-4,000	3
4,001-5,000	4
5.001 +	5

G6 = Accident History (10 years)

Each reportable train-involved accident

*PF = Protection Factor for:

Std. #9 = 1.0 Std. #8 = 0.4 Std. #3 = 0.2 Std. #1 = 0.1

- No more than 3 points shall be allowed for each accident prior Note 1. to modification by the protection factor.
- Each accident shall be rated separately and modified by a Note 2. factor appropriate to the protection in existence at the time of the accident.

G7 = Irreducibles

- (a) Secondary accidents.
- Emergency vehicle usage. Accident potential. (b)
- (c)

Separations		•	
Sl = Width	Clearance	S2 = Separation Heig	ht Clearance
Width (Ft.)	Points	Underpass (Ft.)	Points
9' + 12(N)	0	15' +	•
6' but less than 9' + 12(N)	2	14' but less than 15'	4
3' but less than 6' + 12(N)	4	13' but less than 14'	8
0 but less than 3' + 12(N)		Less than 13'	10
ll(N) but less than l2(N)		Overpass (Ft.)	
Less than ll(N)	6	22½′ +	0
2000 1110111 111 (1)	8	20' but not less than 22½'	4
	10	18' but not less than 20'	8
		Less than 18'	10
	N = Number o	of Traffic Lines	
\$3 = Sp	eed Reduction	or Slow Order	
	ne derate vere	0 2 5	
S4 = Lo	ad Limit		
	ne derate vere	0 2 5	

S5 = Accidents at or Near Structure (10 years)

Number	Points
0-10	0
11-20	ĭ
21-30	2
31-40	2 3
41-50	
51-60	4 5 6
61-70	6
71-80	7
81-90	8
91-100	_9
101 +	10

S6 = Irreducibles

- (a) Probability of Failure.
- (b) Accident Potential.
- (c) Delay Effects.

Following the hearing the staff prepared and submitted late-filed Exhibit 9. Based upon the testimony and evidence presented during the course of hearing, changes were made in the number of points originally awarded to projects, as the result of changes in factual data and further explanation of data that were first submitted with the nominations. Changes were also made where local agencies did not provide sufficient evidence or foundation for the information contained in their original nominations. Projects for which no appearance was made were eliminated from consideration.

Projects with points revised because of changes in factual data or because of further explanation of previously submitted information are as follows:

Agency	Crossing Name	Affected Category
Alameda County	Niles-Pls CNL .	Crossing Name Project Cost
CALTRANS	237-Senta Clara L-39.8 162-Butte	Project Cost Train Speed Irreducibles
Chico	Dayton Road	Vehicle Volume

Agency	Crossing Name	Affected Category
Corona	Cota Street Cota-Railroad Railroad Street	Vehicle Speed Vehicle Speed Vehicle Speed
El Monte	Peck-Ramona	Train Volume
Fresno County	Herndon Avenue	Train Volume Blocking Delay
Hayward	Tennyson Road A Street Harder Road W. Winton Avenue	Project Cost Project Cost Project Cost Project Cost Train Speed
Los Angeles County	Alondra Blvd. Hollywood Way Bandini Blvd.	Vehicle Speed Vehicle Speed Project Cost Blocking Delay
Los Angeles	Valley Blvd. Nordhoff Street	Project Cost Project Cost
Norwalk	Imperial Highway	Train Speed
Ontario	Euclid Avenue	Project Cost Blocking Delay
Oroville	Bridge Street	Height Clearance
Pomona	Humane Way	Train Volume
Richmond	Castro Street	Project Cost
Sacramento County	U Street	Vehicle Volume Project Cost
Salinas	Boronda Road	Train Volume Train Speed Blocking Delay Accident History Irreducibles
San Gabriel	San Gabriel Lwr.	Train Speed Blocking Delay Train Volume

Agency	Crossing Name	Affected Category
Sam Jose	Branham Lane	Vehicle Volume
	Bernal Road	Project Cost Project Cost
San Luis Obispo	Orcutt Road	Irreducibles
South San Francisco	Grand Avenue	Irreducibles
Sumnyvale	Mary Avenue	Train Volume

The following projects were eliminated from consideration either by request of the nominating agency or because a representative of the nominating agency failed to appear at the hearing in support of the project.

Agency	Crossing Name	
Pittsburg	Railroad Av./SPT Co. Railroad Av./AT&SF	
Riverside County	Magnolia Avenue Limonite Avenue	
Santa Fe Springs	Carmenita Avenue	
Torrance	Torrance RCL	

The following projects were eliminated from consideration because they are not feasible as individual projects.

Agency	Crossing Name
San Gabriel	Ramona Street San Gabriel Blvd. Del Mar Avenue
	Mission Drive

The staff recommends that the Alondra Boulevard and Eastern Avenue projects nominated by the County of Los Angeles be excluded from the 1980-81 Grade Separation Priority List because both received allocations from the Grade Separation Fund in the 1978-79 fiscal year and an additional allocation from funds provided through Senate Bill 620.

Southern Pacific Transportation Company (SP) made a motion to strike the Tennyson Road, Harder Road, and W. Winton Avenue projects nominated by the City of Hayward; the Castro Street project nominated by the City of Richmond; the Branham Lane and Bernal Road projects nominated by the City of San Jose; and the Valley-Eastern project of the City of Los Angeles on the ground that the nominations do not contain all the information, particularly cost information, required by the Commission's Order Instituting Investigation, and the additional information was not provided by the supporting witnesses at the time of hearing. SP contends that if incomplete cost data is presented it will most likely result in a project receiving a higher priority by reason of the use of a lower cost figure.

This problem arises because many projects are in the early stage of planning and costs are based upon ballpark estimates. In many instances the nominating agency has little expectation that it will be able to commence construction within the fiscal year. In prior priority list proceedings, supplemental information has been provided following submission. This procedure was followed by the staff in its preparation of late-filed Exhibit 9.

With the exceptions of the Bernal Road and Branham Lane projects, all of the projects subject to the motions ranged in priority positions from 64 to 70 in Exhibit 2. The relative changes in positions of these projects, as set forth in late-filed Exhibit 9, range from 55 to 68. There is little chance that these projects would qualify for an allocation during the next fiscal year.

The Bernal Road project improved its position, following hearing, moving from a priority position of 22 in Exhibit 2 to 19th position in Exhibit 9. The Branham Lane project, however, dropped from a priority position of 19 in Exhibit 2 to a priority position of 37 in Exhibit 9.

It does not appear that the supplemental information provided following submission has materially improved the position of these crossings to the detriment of other projects and striking them from the list would serve no particular purpose. It is safe to say that with the exception of the Bernal Road project that these projects will again be nominated for the 1981-82 priority list and that at such time more definite cost information will be provided.

SP also made a motion to strike the Peck-Ramona nomination of the City of El Monte and the Grand Avenue nomination of the City of South San Francisco for failure to present witnesses capable of being cross-examined on the nominations.

The witness for the City of El Monte was not able to answer in detail questions relating to the gradient plan and width of the Peck-Ramona nomination, nor was the witness for the City of El Monte or the witness for the City of South San Francisco able to identify the SP representatives who had been contacted by telephone and supplied information on train counts and blocking time.

The El Monte witness testified that final plans for the Peck-Ramona nomination had not as yet been prepared. The only plans for the project are those contained in a four-year-old preliminary study and a copy of these plans was furnished to SP several years ago. According to the witness the project gradient can be determined from these early plans.

According to SP the motions to strike were made for fear that unless disputes concerning the necessity for a grade separation (including disputes concerning design plans which affect the estimated cost of a project) were raised in this proceeding, it would be precluded from raising them in a subsequent application proceeding requesting authority to construct. This was prompted by Commission Decision No. 91469 dated March 18, 1980 in Application No. 59126, which related to a request by the City of Salinas for

authority to construct a grade separation over SP's tracks at Davis Road. In that proceeding the city advanced the Davis Road project as qualifying to replace the Boronda Road crossing, which project placed 22nd on the 1979-80 priority list. In precluding SP from showing that the Boronda/Davis Roads project was placed too high on the priority list, the Commission found that:

- "22. The project is in Priority Position Number 22 as set forth in PUC Decision No. 90399, dated June 5, 1979.
- "23. Pursuant to PUC Decision No. 90399, the Boronda Road grade crossing has been found to be urgently in need of elimination or separation.
- "24. SP was represented in the nomination hearings which were held in 1979 and which culminated in PUC Decision No. 90399. SP did not object to the nomination of the project by City, and SP did not request that the hearings be reopened or that a rehearing be set with respect to this project."

It appears that some confusion over the role or purpose of each type of proceeding has surfaced which should be clarified. The Grade Separation Priority List proceedings have a very narrow purpose—to develop a comparative ranking of projects nominated by state and local agencies and the railroads for grade separation or reconstruction. That ranking is determined by a lengthy list of primarily objective criteria, the factual data being supplied by the nominating party, and tested through cross—examination in public hearing. Because of the many nominations that have to be considered and the limited amount of time for hearing, there is little or no opportunity in the priority list proceeding to consider in detail issues of need or specifics affecting final design or apportionment of cost. Agencies are, in fact, limited at the priority hearings to one witness who can answer questions on the submitted nomination.

Parties do have an adequate chance to challenge the factual data submitted, such as vehicle and train volumes, vehicular and train speeds, accident history, delay, alternate route availability, and, to an extent, the project cost estimate; therefore, a priority list's integrity, once issued, should be maintained.

Applications for authority to construct address only the single project in question and are, therefore, the proper outlet for examining the project's individual merits and questions of need and technical detail. Projects at the priority list proceedings are generally just in the conceptual stage without much idea of specific technical features or requirements. Applications for authority to construct usually come much later, and for many legitimate reasons a project may differ in scope, cost, or functional intent. This is the proceeding which should closely scrutinize a project's detail, including need, technical design, and apportionment of cost. Interested parties, which could include many groups not involved in the priority hearings, should not be restricted by their appearance or position at the priority list hearings nor limited by the findings based on the preliminary nomination. Each request for authority to construct should be evaluated on the merits of the application -- the latest and most detailed information available. The motions of SP will therefore be denied.

The Commission has learned, since the date of the hearings on the 1980-81 priority list, that five projects appearing on the 1979-80 priority list, which were also nominated for the 1980-81 priority list, have been approved for allocations. These projects, therefore, will not appear on the 1980-81 priority list. The projects, by agency and crossing name, are:

Agency

Buena Park Ontario Caltrans Pomona Oroville

Crossing Name

Beach Blvd.
Euclid Avenue
St. Rt. 237 Widening
Humane Way - SPT
Bridge Street

Appendix B lists, in alphabetical order, the projects nominated for the 1980-81 priority list. Included in the table, in addition to information identifying each project, are the vehicular and train volumes, project cost, and the $\frac{V \times T}{C \times 24}$ calculation for each named project.

Appendix C is a list of point values awarded in each Special Conditions Factor category to existing or proposed crossings nominated for separation or elimination.

Appendix D is a list of point values awarded in each Special Conditions Factor category to existing grade separations nominated for alteration or reconstruction.

The basic procedure employed by the staff for processing and evaluating the nominations was as follows:

- 1. Nominations were received by the Commission and logged in by the Traffic Engineering Section staff.
- 2. The data required to complete the formulac and the information identifying the crossing(s) were entered on a crossing file imput form.
- 3. Data entered on the form were transferred to data imput cards and entered into the computer.
- 4. The V x T calculation was performed for C x 24

 each project and Special Conditions
 Factor points were assigned according to the defined schedules by the computer.

- 5. Totals for each project in the Special Conditions Factor categories were gathered and the Priority Index Number was calculated.
- 6. The projects were ranked according to their descending Priority Index Number.

Conclusions of Law

- 1. The criteria set forth in Appendices B, C, and D attached hereto are reasonable and should be used to establish the 1980-81 priority list.
- 2. The Alondra Boulevard and Eastern Avenue projects nominated by the County of Los Angeles should be excluded from the 1980-81 Grade Separation Priority List because both received allocations from the Grade Separation Fund in the 1978-79 fiscal year and an additional allocation from funds provided through Senate Bill 620.
- 3. The following projects should be eliminated from consideration because they are not feasible as individual projects.

Agency	Crossing Name
San Gabriel	Ramona Street San Gabriel Blvd. Del Mar Avenue Mission Drive

4. Because a representative of the nominating agency failed to appear in support of the nomination, the following projects should be eliminated from consideration.

Agency	Crossing Name
Pittsburg	Railroad Av./SPT Co. Railroad Av./AT&SF
Riverside County	Magnolia Avenue Limonite Avenue
Santa Fe Springs	Carmenita Avenue
Torrance	Torrance RCL

5. The motions of SP to strike the Tennyson Road, Harder Road, W. Winton Avenue, Castro Street, Branham Lane, Bernal Road, Valley-Eastern, Peck-Ramona, and Grand Avenue nominations should be denied.

- 6. Because of the many nominations that have to be considered and the limited amount of time for hearing, there is little or no opportunity in the priority list proceeding to consider in detail issues of need or specifics affecting final design or apportionment of cost. The close scrutiny of a project's detail should be considered in an application for authority to construct proceeding.
- 7. The five projects listed in the body of this decision, which received allocations subsequent to hearing hereon, should be excluded from the 1980-81 priority list.
- 8. The criteria or rules of the Commission established for use in determining the 1980-81 priority list are subject to modification, and the Commission invites the participation of interested parties to offer their recommendation.
- 9. The list set out in Appendix E should be established as the 1980-81 Grade Separation Priority List established in accordance with Section 2452 of the Streets and Highways Code.
- 10. With regard to projects having the same priority index number, consideration should first be given to projects which separate or eliminate existing grade crossings, then to projects for the alteration or reconstruction of existing grade separations, and finally to projects for the construction of new grade separations. Within each of these categories, first consideration should be given to the lowest cost project in order that the maximum number of projects may be accomplished with the available funds.
- 11. As the statute requires our order by July 1, the effective date of this order should be the date of signing.

ORDER

IT IS ORDERED that:

1. The list of projects appearing in Appendix E is established as required by Section 2452 of the Streets and Highways Code as

the 1980-81 list, in order of priority, of projects which the Commission determines to be most urgently in need of separation or alteration.

- 2. The motions of Southern Pacific Transportation Company to strike the Tennyson Road, Harder Road, W. Winton Avenue, Castro Street, Branham Lane, Bernal Road, Valley-Eastern, Peck-Ramona, and Grand Avenue nominations are denied.
- 3. With regard to projects having the same priority index number, consideration shall first be given to projects which separate or eliminate existing grade crossings, then to projects for the alteration or reconstruction of existing grade separations, and finally to projects for the construction of new grade separations. Within each of these categories, first consideration shall be given to the lowest cost project in order that the maximum number of projects may be accomplished with the available funds.
- 4. The Executive Director shall furnish a full, true, and correct copy of this opinion and order to the California Transportation Commission.

The effective date of this order is the date hereof.

Dated dun 3 1980 , at San Francisco, California.

Commissioners

Commissioner Claire T. Dedrick, being necessarily absent, did not participate in the disposition of this proceeding.

APPENDIX A

LIST OF APPEARANCES

Interested Parties: Harold S. Lentz, Attorney at Law, for Southern Pacific Transportation Company and affiliated companies; Roy R. Gifford, for the Western Pacific Railroad Company; E. G. Gilmer, For The Atchison, Topeka & Santa Fe Railway Company; Eugene C. Bonnstetter, Attorney at Law, for the State of California, Department of Transportation; James P. Jones, for the United Transportation Union; Robert S. M. Yee, for the City of South San Francisco; Robert G. Bezzant, for City of San Mateo; George E. Cook, for City of San Carlos; Donald M. Somers, for City of Sunnyvale; Ed Hardin, for City of Hayward; Marvin D. Johnson, for City of Fresno; Thomas M. Perch, for Fresno County; Arnold Joens, for City of Salinas; Kon Miller, for City of Stockton; Art Mendoza, for City of San Jose; James C. Ray, for County of Sacramento; Melvin P. Jones, for City of Rohnert Park; Robert M. Barton, for City of Oroville and Alameda County; Barnabas John Kerekes, for Contra Costa County; Wayne Peterson, for City of San Luis Obispo; Bruce Crandall, for City of Los Angeles; Dwight F. French, for City of San Gabriel; David E. Hedlund, for City of Buena Vista; Henry R. Mohle, for City of Corona; G. Brent Muchow, for City of Irvine; Merrell Watts, for City of Oceanside; Harold L. Purdy, for County of Santa Barbara; Eldon Lee, for City of Indio; Calvin K. Wang, for City of Colton; Glenn F. Welch, for City of El Monte; Robert L. Lawson, for Los Angeles County; David K. Hayward, for City of Kedondo Beach; and Rosalind A. Daniels, for City of Ontario.

Commission Staff: Robert W. Stich.



ALPHABETICAL LIST OF PROJECTS BY NOMINATING AGENCY

	CROSSING NAME	PR	ยห	NILI POST	SUF	PROP	TYPE PROJ	AOF NHE AER	TRATA	PROJECT COST	Y X T
AGENEY	NILES-PLS CML			37.2	ម		1	53107	5	7238000	2
ALAPEDA COUNTY	LIV-ALT CASE	1	0	46.0			1	57491	5	3083000	4
ALAHEOA COUNTY		1	a	312.3			1	35306	32	5067000	6
BAKERSFIELO	0816N-241H	2	•	160.6	8		4	52322	52	5833000	19
BUENA PARK	BEACH AF		o.	562.4			1	8000	64	3308000	6
CALTRANS	79-RIVEP510E	1	8				1	4700	54	4197000	3
CALTRANS	133~SAN BRDO	2		60.9				14500	44	4140000	6
CALTRANS	68-HONTERET	1	£	119.29			1	5000	49	2540000	4
CALTAANS	166-511 BARBA	1	C	216.8			1		14	6017000	,
CALTRANS	160-FRESNO	5		3,766			1	25600			6
CALTRANS	58-SAN BROD	2		780.3			1	8200	30	1580000	3
CALTRANS	70-1081	t	¢	141.7	8		•	16500	40	9445000	
CALIRANS	84-4010	1	A	87.5	8	•	SY	10000	3.6	\$360000	6
CALTRANS	237-SANTA CLA	1	ŧ	37.1	4		•	.27500	59	3300000	20
CALIKANS	237-SANTA CLA	1	ι	39.8			ŧ	37500	9	9725000	1
CALTRANS	238-AL AHEOA	4	G	1.4	A		4	17000	8	2000000	3
CALTRANS	162-80116	4		204.0	8		4	21750	34	5500000	8
CALTRANS	41-FRESKO	1	8	205.9			1	14250	33	7748000	3
CHICO	DAYTON ROAD	1	¢	183.8			3	1584	29	629000	3
COLTON	rege st	2	3	4,1	8		4	1842	55	2075000	2
CONTRA COSTA COUNTY	SCHERSVILLE	1	9	52,1			1	13856	4	2296000	t
	NORELLO AV	2		1169.1	8		4	3403	20	2070000	1
CONTRA COSTA COUNTY	CGTA ST	2	ย	21.5			1	7051	33	4002000	5
CORUNA	0434146A03		8	24.5			1	9103	34	1050000	3
CORONA			8	25.6			1	2052	35	1055000	1
CORONA	RAILROAD ST	2					,	1682	40	1335000	2
OUNSHULR	SCHERREP AV	1	C	321.7			•	,			



ALPHABETICAL LIST OF PROJECTS BY NOMINATING AGENCY

AGENCY	Caussing Rahe	ĸĸ	6 R	HILE POST	SUF	PROP	TYPE PROJ	AOFRKE AEH	19AIK 19AIK	PROJECT COST	C (54
EL MONTE	PECK-RANGHA	1	ថ	455.0			i	40416	24	15115000	3
FRESHO COUNTY	HERMOON AV	2		1007.4			ı	9574	3.8	2376000	4
FRESHO	ASHLAN AV	1	B	199.9			1	10000	5€	4043000	6
FULLERION	GILBERT ST	2		162.4			1	21900	46	5820000	7
HAYVARO	HARDER FOAD	ì	o	21.6			1	21000	55	1872000	5
HAYNARD	TERNYSON ROAD	ı	0	23.0			1	22400	55	4296000	5
HAYWARD	k wintok FV	1	L	20.2			t	3860	32	5753000	1
DRAWYAH	A STREET	4		20.2			1	28074	10	9030000	1
END ED	HOHROE ST	1	8	609.7			1	15700	40	6573000	4
IRVINC	IRVINE LYR	2		180.5			1	38634	14	11000000	3
IRVENE	ALTON PARKWAY	2		185.8		•	28	3980	24	868000	5
LOS ANGELES COUNTY	FLORENCE DY	1	86	488,3			ı	30409	16	6743000	3
LOS ANGELES COUNTY	GRAND AY	1	B	508.0	A	•	21	9000	49	6369000	3
LOS ANGELES COUNTY	OOUGLAS ST	5	н	15.01	8	•	SY	12000	12	3840000	2
LOS ANGELES COUNTY	GREENIGED HEB	2		149.5			1	13497	49	6945000	4
LOS ARGELES COUNTY	EASTERN AV	2.		147.3			1	16154	46	3679000	8
LOS ANGELES COUNTY	BANOINI BL	3	A	3.4			1	19422	8	7803000	1
LOS ANGELES COUNTY	ALONORA EL	2		159.6			1	17431	52	12091000	3
LOS ANGELES COUNTY	TAN COONFIIOH	1	ß	469.4			1	23315	16	9358000	2
LOS ANGELES	VALLET EL	1	tı	485.8			1	18400	34	9155000	3
LOS ANGELES	SANTA FE-HASH	2		143,29	C		1	41013	40	11620000	6
LOS ANGELES	HUSTH HATE ST	•	Ą	1142			1	10600	98	23500000	5
LOS ANGELES	SAFICUY ST	1	E	456.0		• •	21	14000	16	10950000	ı
LOS ANGELES	Barohaff 51	1	E	448.5		•	21	16000	16	4438000	5
NORWALK	INPERIAL HER	ŧ	84	498.0			1	30069	18	4059000	6



ALPHABETICAL LIST OF PROJECTS BY NOMINATING AGENCY

AGENCY	CROSSING NAME	PR	8 R	HILE POST	SUF	PROP		AEH	TRATA YOLUFE	PROJECT COST	C X 24
OCEANSTOE	COMBINED LWR	, 5		225.3			ŧ	33816	55	12600000	6
ONTARIO	EUCLIO AV	3		37.7			1	24057	57	7114000	8
OROVILLE	BRIGE ST	•		205.3	A		4	9474	24	595000	16
PGHONA	HUHANE WAY	3		29.6	A		4	1980	20	710000	2
POHONA	HUHANE WAY	1	8	511.3	A	•	2.4	15000	21	1765000	9
REDONOU BEACH	INGLESOOD AV	2	Ħ	16.7			1	34136	12	2585000	7
RICHBONO	CASTRO ST	34		0.15			1	7000	36	4370000	2
AGHNERT PARK	ROHNERT PA EL	5		47.4			1	15521	10	2470000	3
SACRAHENTO COUNTY	U STRECT	ŧ	A	102.5			t	4600	44	5320000	5
SALINAS	BGRONDA RD	1	£	116.7			t	8816	24	7296000	1
SANTA BARBARA COUNTY	HOLLISTER AV	1	£	365.7	8		4	15075	17	2132000	5
SAN CARLOS	HOLLY STREET	t	£	23.2			1	19285	59	7604000	6
SAR GABRIEL	SAN GABL ENR	ı	8	490.2			1	-71607	42	13500000	9
SAN JOSE	BERNAL RO	1	£	61.0			1	12430	30	2605000	6
SAN JOSE	BRANHAR UN	1	E.	57.3			1	5350	30	2765000	5
SAN LUIS COISPO	ORCUIT FO	ı	£	253.3			ì	11432	14	3697000	5
SAN HATEO	. SANTA INEZ AV	1	£	17.3	8		4	860	56	577000	3
SAN HATEU	PUPLAR AY	ì	E	17.2	8		4	8900	56	705000	29
SAN MATEO	HOUSE OTABLO	t	ε	17.4	B		4	1130	56	577000	5
SAN HATEU	FILTON AV	ŧ	£	17.5	6		4	4000	56	578000	16
SOUTH SAN FHANCISCO	GRAND AVENUE	Ł	E	9.3			ŧ	19840	70	13515000	•
STOCKTON	HANNER LAND	4		94.5			1	25000	17	5247000	3
SURNYVALE	NOTE NO	1	E	39.7		•	1	27228	70	6260000	13
SUNNYVALE	MARY AY	ì	Ĺ	. 37.9			1	23368	51	12950000	4



SPECIAL CONDITIONS FACTORS FOR GRADE CROSSINGS NOMINATED FOR SEPARATION OR ELIMINATION

AGENCY	erossing Name	PR	8R	HILE POST	sur	PROP	VEH SPO LINIT GI	TRAIN SPEED G2	XING GECK G3	BLKKG OELAY G1	ALT RTE GS	ACC HIST G6	1 A R G 7	TOTOL
ALAHEDA COUNTY	NILES-PLS CKL	4		37.2	8		0	3	5	1	5	50	15	46
ALAHEDA COUNTY	LIV-ILI CHSL	1	n	46.0			2	3	5	1	5	11	15	42
BAKERSFIELD	UNEOH-S4EH	1	8	312.3			1	3	4	8	5	6	11	35
CALTRANS	79-RIVERSIDE	ı	В	562.4			1	3	3 ·	8	1	٥	8	53
CALTRANS	138-5AN BROO	S		60.9			5	i	4	6	5	10	8	39
CALIRANS	1383110H-60	1	ε	119.29			1	0	5	6	t	5	1	19
CALIFANS	166-STA BARBA	ŧ	ε	276.8			0	3	5	6	4	5	7	27
CALTRANS	180-FRESHO	5		997.8			0	•	5	7	1	5	8	23
CALTRANS	58-5AN 8R00	2		760.3			5	4	3	5	5	5	8	32
CALIRANS	64-YOL0	1	4	87.5	8	• `	3	5	0	3	3	0	5	19
CALTRANS	237-SANTA CLA	1	L	39.8			5	2	5	1	4	6	9	29
CALTRANS	41-FRESHO	1	в	205.9			0	ì	3	3	•	3	8	1.6
CHICO	DAGA HOTYAO	1	c	183.8			3	. 1	4	5	5	0	6	24
CONTRA COSTA COUNTY	SOMERSVILLE	ı	8	52.1		•	` 1	2	5	•	3	0	6	14
CORONS	CGTA \$1	5	Ð	24.5			ı	1	5	4	2	0	7	17
CORONA	COTA-RAILEOAD	5	8	24.5		-	5	t	3	4	5	0	9	24
CORONA	RATEROAD ST	5	8	25.6			5	1	5	3	5	0	9	25
SIUMSAUG	SCHERRER AV	1	c	321.7			0	0	5	10	5	1	15	36
EL HONTE	PECK+RANONA	1	9	495.0			5	•	3	•	•	50	15	52
FRESHO COUNTY	VA ROOMFIH	5		1007.4			5	3	3	S	5	14	10	45
FRESHO	AZHEAH AY	1	a	199.9			5	i	5	10	5	0	10	36
FULLERION	GILDERT ST	.5		167.4			1	5	4	1	5	0	9	52
HAVWARD	HAROER ROAD	ł	ŋ	21.6			· 1	ì	3	ı	3	t	6	16
HATMARO	TENNISON FOJO	1	0	23.0			1	ì	5	1	•	3	6	1.
HAYVARD	A Vernia R	1	L	59.5			1	3	5	2	5	٥	5	14



SPECIAL CONDITIONS FACTORS FOR GRADE CROSSINGS NOMINATED FOR SEPARATION OR ELIHINATION

. AGENET	CROSSING Name	88	BR	HILF PGST	SUF	PROP	4EH 5PO EIHIT G1	TRAIN SPEED G2	XING GECH G3	BLKKG DELAY G4	ALT RTE G5	66 H131 VCC	IRR G7	TOTOL SCF
HAYWARD	A STREET	•		20.2			Q	4	5	0	1	2	8	20
ENDIO	HONRGE ST	1	B	609.7			1	5	4	9	5	3	10	37
IRVIAE	IRVINE LYK	Z		100,5			5	5	3	ı	5	5	. 10	28
	ALION PARKAY	2		185.8		•	5	5	٥	Q	3	٥	4	17
IRVINE	FLORENCE AY	1	86	488.3			1	0	3	3	2	2	7	18
LOS ANGELES COUNTY	GRAND AV	1	ម	506.0	4		3	4	0	6	2	Q	4	19
LOS ANGULES COUNTY	nouglas SI	5	н	15,01	8	•	2	٥	¢	ŧ	2	٥	5	10
LOS ANGELES COUNTY	GREENEGED FIN	2	••	149.5			5	4	3	5	3	3	8	28
LOS ANGELES COUNTY		2		147.3			2	4	4	8	3	2	7	30
LOS ANGELES COUNTY	EASTERN AV						3	0	3	. 6	ı	3	9	25
LOS ANGELES COUNTY	BANOINI BL	3	A	3.4			2	5	3	6	5	3	10	34
LOS ANGELES COUNTY	ALONUPA BL	2		159.6				3	3	2	•	3	10	26
LOS ANGELES COUNTY	HOLFARGED AYA	ŧ	ð	469.4			1					3	7	21
LOS ANGELES	YALLEY BL	ŧ	8	485.8			1	• 0	3	3	•			30
LOS ANGELES	SANIA FE-KASH	5		143.29	C		5	٥	3	8	2	5	10	
LOS ANGELES	HORTH HAIN ST	3	8	1.47			ı	0	5.	10		2	11	30
LOS ANGELES	SATICOY ST	1	E	456.0		•	2	4	0	2	2	٥	5	15
LOS ANGELES	NOROHOFF ST	1	٤	446.5		•	1	4	•	٥	1	0	6	15
HORMALN	INPERIAL HWY	ŧ	48	498.0			2	0	3	3	5	3	9	22
OCEANSTOE	CONSTREO LYR	5		225.9			0	1	4	5	3	11	13	37
GhIARIO	EUCLEO AY	3		37.7			1	4	\$	6	ŧ	7	14	35
POHOHA	HUNANE NAT	1	R	511.3	A		5	4	0	4	ŧ	0	5	16
REOGNOO BEACH	INGLENDLO AY	5	н	16.7			1	0	3	1	5	4	9	23
RICHHOND	CASTRO ST	34		0.15			. 0	٥	5	7	3	0	7	19
ROHNERT PARK	ROHNERT PA EC	5		47.4			t	2	1	1	2	0	4	11
SACRAHENTO COUNTY	U STFECT	1	٨	105.5			0	1	3	10	5	1	6	56

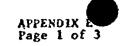


SPECIAL CONDITIONS FACTORS FOR GRADE CROSSINGS NOMINATED FOR SEPARATION OR ELIMINATION

AGENEY	CROSSING HAPE	FR	£ ß	HILE	SUF	PROP	YEH SPO LINIT GI	TRAIN SPEEO G2	KIYC CECX C3	BLKKG DELAY G4	ALT RTE G5	ACC HIST G6	IRR G7	1010L	
SALINAS	BORONDA RU	1	E	116.7			5	3	1	5	5	5	6	27	
SAN CARLOS	HOLLY STREET	1	E	23.2			0	4	2	4	4	2	10	5.6	
SAN GABRIEL	SAN GABL LWR	ı	3	490.2			1	1	5	3	5	5	15	25	
SAN JOSE	BERNAL FO	1	£	61.0			2	5	4	1	5	1	8	35	
SAN JOSE	BRANHAH EN	ı	E	57.3			1	5	3	7	S	1	8	21	
SAN LUIS OBISPO	URCUII FD	1	E	253.3			2	0	3	6	5	0	8	24	
SOUTH SAN FRANCISCO	GRAND AVENUE	1	ε	9,3			1	4	5	7	3	7	13	40	
STUCKTON	HANNER LANE	4		98.5			3	4	1	3	5	1	7	24	
SUNNYVALE	WULFE RE	ı	ε	39,7			i	5	3	4	2	ŧ	11	27	
SUNNTYALE	HARY AV	· t	E	37.9			ŧ	5	4	5	3	4	9	28	

SPECIAL CONDITIONS FACTORS FOR SEPARATIONS NOMINATED FOR ALTERATION OR RECONSTRUCTION

AGENCY	CHOSSING NAME	ዩ ዩ	ยล	2118 1209	SUF	PROP	WIDTH CLEAR 51	HEIGHT CLEAR 52	SPEED REDUC 53	LOAD LIMIT S4 ·	ACC STRUC \$5	IRR S&	TOTAL SCF
BUENA PARK	BEACH OL	?		110.6	9		10	4	2	5	10	6	37
CALTRANS	70-YU8A	ŧ	C	141.7	8		4	4	5	2	1	8	24
CALTRANS	237-SANTA CLA	1	£	37.1	A		0	0	5	0	8	5	18
CALTRANS	238-AL4HE04	•	G	1.4	8		8	4	2	0	Q	5	19
CALTRANS	162-8011E	4		204.0	0		2	4	0	2	ı		17
COLTON	F06G S1	2	8	4.1	8		10	- 10	5	Q	1	9	35
CONTRA COSTA COUNTY	HORELLO AY	2		1169.1	8		10	4	5	0	0	•	25
ORGVILLE	BRIDGE ST	4		205.3'	A		6	4	5	0	0	7	55
PONONA	HUHARE WAY	3		29.8	A		4	٥	Ò	0	0	5	•
SANTA BARBARA COUNTY	HOLLISTER AV	t	٤	365.7	8		•	4	5	0	10	9	5.9
SAN HATEG	SANTA THEZ AV	ı	ŧ	17.3	8		2	10	٥	Q	0	8	20
SAN MATEO	POPLAR AV	1	ε	17.2	8		4	8	•	•	1	8	21
SAN HATEO	HONTE OTABLO	1	ĩ	17.4	8		5	. 10	0	٥	0	9	21
SAN HATEO	TILION AV	ı	€	17.5	8		5	10	5	Q	2	10	29



PROJECTS NOMINATED BY PRIORITY INDEX NUMBER

AGENCY	CROSSING NAMC	ÆR	BR	HILE	SUF	PROP	V X T	SCF	PRIORITY INDEX NUMBER	PRIORITY NUMBER
EL HONTE	PECK-RAHONA	1	8	495.0			3	52	55	1
SAN HATEO	POPLAR AV	i	ξ	17.2	8		29	21	50	2
ALANEDA COUNTY	NILES-PLS CHL	•		37,2	8		2	46	4.5	3
FRESHO COUNTY	YA KOOKKIH	S		1007.4			4	42	46	4
ALAHEOA COUNTY	LIV-ALT CHIL	1	0	46.0			4	42	46	5
SAN MATEO	TILTON AV	ı	ε	17.5	8		16	29	45	6
SOUTH SAN FRANCISCO	GRAND AVENUE	1	£	9.3			4	40	44	7
OCEANSIDE	COMBINED LWR	2		225.9			6	37	43	8
FRESNO	ASHLAN AV	1	В	199.9			6	36	42	9
CALTRANS	138-SAN BROD	S		60.9			3	39	42	10
BAKERSFIELO	H115-2014	ŧ	B	312.3			6	35	41	11
INDIO	HONROE ST	1	8	609.7			4	37	41	12
SURNIVALE	WOLFE RO	1	ξ	39.7			13	27	. 40	13
OUNSHUIR	SCHERRER AV	1	c	321.7			5	36	38	14
CALTRANS	58-SAN BROD	2		780.3			6	32	38	15
SAN JOSE	BERNAL FO	1	E	61.0			6	32	36	16
COLTON	FOGG ST	2	8	4.1	8		2	35	37	17
LOS ANGELES	SANTA FE-WASH	2		143.29	C		8	30	36	18
SAN GIBRIEL	SAN GABL LWR	1	В	490.2			3	32	35	19
SANTA BARBARA COUVEY	HOLLISTER AV	t	£	365.7	в		5	85	33	20
FULLERION	GILBERT ST	2		162.4			7	25	32	51
LOS ANGELES COUNTY	GREENHOOD HIB	5		149.5			•	28	32	55
SAN CARLOS	HOLLY STREET	ł	£	23.2			6	26	32	23
SUNNYVALE	HARY AY	1	E	37.9			•	85	32	24
LOS ANGELES	NORTH HAIR ST	3	ક	1,42			2	30	32	25



PROJECTS NOMINATED BY PRIORITY INDEX NUMBER

Agency	CROSSING NAME	አብ	8R	1209 1209	sur	PROP	C X 24	SCF	PRIORITY INOEX NURBER	PRIORITY NUMBER
CALTRANS	166-STA RARBA	1	Ę	216.8			4	27	31	26
IRVINE	IRVINE LWR	2		180.5			3	28	31	21
REDONDO BEACH	ENGLEROCO AY	5	Ħ	16.7			1	23	30	58
CALTRANS	180-FRESHO	2		8,188			7	23	30	29
CALTRANS	237+SANTA CLA	1	t	39.8			1	29	30	30
SAN JOSE	BRANHAH LN	t	£	57.3			5	53	29	31
CALTRANS	19-RIVERSIDE	1	8	562.4			6	23	29	32
NORWALK	INPERIAL HWY	ŧ	ВЖ	698.0			6	55	28	33
SACRAHENTO COUNTY	U STREET	t	A	102.5			2	56	28	34
SALINAS	BORONOA PO	1	ċ	116.7			1	15	28	35
LOS ANGELES COUNTY	HOLLTHOOD WAY	1	8	469.4			2	56	28	16
CH1CO	OATION ROAD	ŧ	£	183.6			3	24	51	37
CORONA	COTA-RAILROAD	5	8	24.5			3	24	27	36
STOCKTON	HANKER LANE	•		98.5			3	24	51	39
CALTRANS	70-YUBA	1	C	141.7	8		3	24	27	40
SAN LUIS OBISPO	ORCUII RD	1	ε	253.3			2	24	'26	41
CORONA	RAILROAD ST	5	8	25.6			1	25	26	42
LOS ANGELES COUNTY	BANDINT BL	3	A	3.4			1	25	26	43
SAN HATEO	HONTE DIABLO	t	ξ	17.4	8		5	51	26	44
CONTRA COSTA COUNTY	HURELLO AY	5		1169.1	8		1	55	56	45
CALTRANS	68-HONTEREY	1	Ε	119.29			6	19	25	16
CALERANS	84-1010	ł	A	81.5	8	•	6	19	25	47
LOS ANGELES	ANTIEL AT	1	R	485.8			3	51	24	48
DARWIAH	TENNYSON ROAD	1	0	53.0			5	18	51	49
SAN HATED	SANTA THEY AY	ŧ	ť	17.3	8		3	20	23	50



PROJECTS NOMINATED BY PRIORITY INDEX NUMBER

•	CROSSING			HILL			Y X T		PRIORITY INDEX	PRIORITY
AGENCY	NAHE	PR	88	P051	\$UF	PROP	C X 24	SCF	NUMBER	HUNDER
CALTRANS	162-80116	•		201.0	8		6	17	23	51
CALTRANS	S38-ALAKEDA	•	G	1.4	8		3	19	5.5	52
TRVINE	ALTON PARKWAY	2		185.8		•	5	17	22	53
LOS ANGELES COUNTY	GRAND AV	1	В	508.0	A	•	3	19	55	54
HATWARD	HAROER ROAD	1	0	21.6			5	16	21	55
RECHBONO	CASTRO ST	34		0.15			2	19	21	56
LOS ANGELES COUNTY	FLORENCE AY	1	86	488.3			3	18	21	57
CALTRANS	41-FRESHO	1	8	205.9			3	18	21	58
HAYWARD	A STREET	4		20.2			1	20	21	59
CORONA	COTA ST	2	8	24.5			2	17	19	60
HAYWARD	W MINION AV	t	Ł	20.2			1	18	19	61
LOS ANGELES	SATECOY ST	ı	€	456.0		•	1	15	16	62
CONTRA COSTA COUNTY	SOMERSYILLE	1	В	52.1			t	14	15	63
ROHNERE PARK	ROHNERT PA EX	5		47.4			3	11	14	64
LOS ANGELES	NORDHOFF ST	ŧ	£	448.5		•	2	12	14	65
LOS ANGELES COUNTY	DOUGEAS ST	2	H	15.01	8	•	5	10	,15	66
PONONA	HUNANE SAY	3		29.8	A		2	9	11	67