# INTERREGIONAL <br>  <br> ROAD SVSTEM PLAN 

FEBRUARY 1990

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# INTERREGIONAL ROAD SYSTEM PLAN 

FEBRUARY 1990

State of California
Business, Transportation and Housing Agency Department of Transportation

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## DEPARTMENT OF TRANSPORTATION

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February 1, 1990

Members, California Legislature State Capitol
Sacramento, CA 95814
Dear Members:
In accordance with Section 164.3 of the California Streets and Highways Code (Chapter 105, Statutes of 1989-SB 300, Kopp), we are pleased to transmit the Interregional Road System Plan. This plan identifies projects on which construction can be started not later than June 30,2000 , which will provide the most adequate interregional road system to all economic centers in the state.

The plan identifies approximately $\$ 3.0$ billion in projects to be developed on the Interregional Road System as selected by the department. These projects will result in a system improvement that, if fully implemented, will achieve the most effective use of available funding.

Sincerely,


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## EXECUTIVE SUMMARY

This Interregional Road System (IRRS) Plan has been prepared in response to Section 164.3 of the Streets and Highways Code. Its purpose is to identify projects on IRRS routes which will provide the most adequate interregional road system to all economic centers in the state.

To achieve the most effective use of available funding, the department identified a subset of the legislatively eligible rural IRRS routes to be developed as a system. Two subsystems are identified: "High Emphasis Routes", and "Other Priority Routes".

The High Emphasis Routes are the major through, trunkline interregional routes that form the backbone of the state's highway network connecting the major economic centers together. The High Emphasis Routes include all of the rural interstates plus 13 non-interstate routes. One of the major objectives of this plan is to develop these High Emphasis Routes to a minimum facility standard.

The Other Priority Routes provide the additional links to the state's other economic centers, and its main recreational areas. The projects shown in the plan on the Other Priority Routes are aimed at correcting current traffic service problems at spot locations and not at achieving a minimum facility standard for the whole route.

This plan identifies about $\$ 3.0$ billion in projects over the 10 -year plan period. Approximately $\$ 1.8$ billion in projects are directed to developing 13 High Emphasis (non-Interstate) Routes to specific minimum facility standards (e.g., Route 99 -freeway). The development of these routes is the department's highest priority for the $\$ 1.25$
 billion identified in statute for the IRRS. Approximately $\$ 800$ million in projects are proposed on the Other Priority Routes. In addition, there are approximately $\$ 400$ million in projects proposed on the rural interstate routes.

The projects proposed in this plan together stand as an interregional road system improvement, rather than as just a collection of scattered projects. Overall, they substantially achieve the plan development objectives, particularly in regard to the upgrading of the High Emphasis Routes. Finally, the project proposals are reasonable, given the likelihood of other federal, state and local funding.

Construction of all projects could be started by June 30, 2000, as required by statute. Project programming decisions are to be made through the State Transportation Improvement Program (STIP) process.

## I. INTRODUCTION AND PLAN OVERVIEW

When many people think of California, its large cities often come to mind, cities like Los Angeles, San Francisco, or San Diego. But there is another California. This California is more than just the national parks like Yosemite or Sequoia. This is a land of smaller towns, rich agricultural lands, and major recreational areas. Colorful names grace many of the towns in this land such as Susanville, Grass Valley, and Eureka. The highway routes that serve this California, and link together these economic centers and regions, is called the Interregional Road System (IRRS). The improvement of that system is the subject of this plan.

This plan has been submitted by the department in response to Section 46 of Chapter 105, 1989 Statutes (SB 300-Kopp). As codified in Section 164.3 of the Streets and Highways Code, the legislation requires the department to submit a plan which identifies projects that could be under construction on this system by June 30, 2000. This plan is designed to answer five basic questions:

- What is the Interregional Road System?
- How were the routes identified and selected?
- How were the projects selected?
- What projects are being proposed?
- What will the projects accomplish?

Organizationally, the plan is divided into four main parts:

- Legislative Background and System Identification
- Project Identification and Selection
- Plan Funding and Project Lists
- Plan Impact


## II. LEGISLATIVE BACKGROUND AND SYSTEM IDENTIFICATION

## A. LEGISLATIVE BACKGROUND

The Interregional Road System (IRRS) was conceived as part of a larger effort to address the critical transportation system funding and development needs of the state. As part of the Kopp-Katz-Baker Transportation Blueprint for the Twenty-First Century legislative package, it was recognized that development of the rural state highway network must proceed, along with the development of state highways in urbanized areas, and local roads, rail corridors, and transit services. Like most of the other new programs created in that legislative package, the implementation of this IRRS Plan is dependent on increases in state transportation revenues.

The main provisions regarding the IRRS are contained in SB 300 (i.e., Chapter 105, 1989 Statutes). They are codified as Sections 164 (d), 164.3 and 164.10 through 164.20 of the Streets and Highways Code. The main provisions:

- Require the department to develop and submit to the Legislature an Interregional Road System Plan by February 1, 1990.
- Identify the eligible system routes.
- Specify that the plan is to identify projects on the eligible IRRS routes, on which construction could be started not later than June 30, 2000, to provide the most adequate interregional road system to all economic centers of the state.
- Limit the eligibility of projects to those that are required to meet the needs of interregional traffic, excluding traffic generated as a result of local growth.
- Outline the process for inclusion of the projects identified in the plan into the State Transportation Improvement Program (STIP).
- Assign $\$ 1.25$ billion for the IRRS over a 10 -year period, from the passage of Senate Constitutional Amendment No. 1 (i.e., "The Traffic Congestion Relief and Spending Limitation Act of 1990").

The full text of the IRRS Plan legislative language is included as Appendix " A ".

## B. ROUTE IDENTIFICATION AND CLASSIFICATION

## 1. Legislative Description

Both the requirements for the plan, and the eligible IRRS routes, are defined in statute. Eligible route segments were identified as those located outside the boundaries of urbanized areas of over 50,000 population, as designated by the most recent census of the Bureau of the Census. In total, 81 routes, comprising 8,599 miles, are identified as eligible.

In some cases, the route definitions include their passage through urbanized areas to ease the definition process, and to encourage route integrity. However, as noted above, only rural segments are eligible for IRRS program funding. Urbanized route segments of the IRRS, though, are eligible for funding from one of the other programs authorized in the transportation legislative package, including the Flexible Congestion Relief Program. The eligible IRRS routes identified in Sections 164.10 through 164.20 of the Streets and Highways Code are listed in Appendix "B", and are displayed on Map One.

For descriptive purposes, the following working definition is used for the IRRS:
The IRRS is a series of interregional state highway routes, outside the urbanized areas, that provides access to, and links between, the state's economic centers, major recreational areas, and urban and rural regions.

## 2. System Identification And Development Priorities

In developing this plan, the department recognized that the resources available over the 10 -year period to develop the IRRS routes are limited. All of the eligible routes are necessary and desirable for interregional travel and should be improved. But if a statewide system improvement is to be achieved with limited funding, then a concentrated, subsystem approach, to focus overall project development. was required. This was the approach taken by the department in the development of this plan.

Using this subsystem plan approach, the department identified a subset of the eligible routes as its Interregional Road System. The legislatively established eligible routes were classified based on: service to economic centers and major recreational areas; availability of alternative routes; and cost effectiveness of route development.The identified subset of routes, when developed as outlined in this plan, will provide the
most adequate interregional road system to serve all economic centers in the state. This identified 5,124-mile subsystem, graphically shown on Map Two, has two components. They are the High Emphasis Routes, and the Other Priority Routes.

- High Emphasis Routes (3,312 miles) - These are the major through, trunkline interregional routes that form the backbone of the state's highway network, and serve as the primary links between the state's major economic centers and geographic regions.

Two classes of highways make up the High Emphasis Routes: Interstates ( 1519 miles) and Non-Interstates ( 1793 miles). Interstate routes have been a primary state highway funding focus over the last 30 years, in both urban and rural areas. The result has been that the interstate system in rural areas has been completed to freeway standards, while the major non-interstate routes have not been brought up to a standard necessary to provide an adequate level of service. Consequently, the development of these major non-interstate highways to a minimum standard is the highest priority of this plan. However, as significant service deficiencies do exist on certain rural segments of the interstate system because of statewide growth, several interstate route projects are proposed in this plan.

IRRS project identification is concentrated on non-interstate High Emphasis Routes, to make significant progress toward developing them to minimum standards to ensure adequate levels of service. These routes, and their minimum facility development standards, are identified in Table One. The High Emphasis Routes are shown on Map Two.

[^0]
## TABLE ONE:

## NON-INTERSTATE HIGH EMPHASIS ROUTES

## Route and Limits

14 (Route 5 to Route 58)
(Route 58 to Route 395)
36 (Route 44 to Route 395)
44 (Route 5 to Route 36)
46 (Route 101 to Route 5)
58 (Route 5 to Route 99)
(Route 99 to Route 14
through Mojave)
(Route 14, east of Mojave
to Route 15)
86 (Brawley to Route 10)
99 (Route 5 near Grapevine
to Sacramento)
(Route 5 north of Sacramento
to Red Bluff)*
101 (Los Angeles to Cloverdale)
(Cloverdale to Oregon)
111 (Mexican Border to Brawley)
120 (Route 5 to Route 99)
152 (Route 101 to Route 99)
299 (Route 101 to Route 5)

395 (Route 15 to Lee Vining)
(Lee Vining to Nevada)
(Nevada to Route 36)

Minimum Route Standard
Freeway
Expressway
Expressway
40 foot roadway with passing lanes
40 foot roadway with passing lanes
Expressway
Freeway

Expressway

Expressway
Freeway

Expressway

Freeway
Expressway
Expressway
Freeway
Expressway
40 foot roadway with passing lanes; removal of large truck size restrictions

Expressway
40 foot roadway with passing lanes
Expressway
*Note: Routing on the segment between Route 70 north of Sacramento and Route 149 north of Oroville, via either Route 70 or Route 99 , will be determined upon completion of planning studies.

Development of these routes, however, differs from the High Emphasis Routes. It is the intent of the department to improve these routes to provide reasonable traffic service, including adequate passing opportunities. On this portion of the system, development is limited to elimination of critical deficiencies.

The Other Eligible Routes are those which were not included as either High Emphasis Routes, or Other Priority Routes, and are not identified as part of the department's recommended IRRS. For these routes, the development of projects from one of the other funding programs, such as the Highway System Operation and Protection Plan (HSOPP), is still an option. This includes the development of safety and operational projects.

## III. PROJECT IDENTIFICATION AND SELECTION

## A. PROJECT IDENTIFICATION AND ELIGIBILITY

Congested traffic, heavy truck volumes, narrow highways and too few passing opportunities are some of the types of problems users experience on the IRRS routes. To fulfill the department's mandate to "...provide the most adequate interregional road system to all economic centers in the state..." these problems had to be addressed in this plan. Further, because of population and economic growth, and increases in recreational activities, rural traffic volumes will continue to increase. Thus, the department also needed to address the roadway service problems that could be anticipated to arise over the 10-year plan period.

These considerations were the foundation of project identification for this plan. Through use of the department's system planning process, projects were identified to resolve these problems. Specifically, four objectives guided the project identification process:

- Develop the high emphasis routes to their minimum facility development standards.
- Improve the IRRS service level, by resolving current system deficiencies, and by anticipating and responding to projected year 2000 system deficiencies.
- Maintain minimum service levels on rural interstate highways.
- Improve the capability of the system to handle interregional goods movement by heavy trucks.

The specific project identification process is discussed below:

## Roadway Service Level:

Inherent in the process of identifying how a route or a transportation system is operating is the concept of Level of Service (LOS). Level of Service is a qualitative measure that describes how a transportation facility is operating, as perceived by the roadway user. It takes into account such factors as travel time, operating speed, traffic interruptions, safety, driver comfort and freedom to maneuver. It is a function of the physical characteristics of the facility (such as number of lanes, roadway alignment, and lane widths) and the mix of traffic and drivers (commute or recreational drivers, heavy trucks, etc.). LOS is depicted using a six-letter classification series, ranging from

A (you own the road) to F (bumper to bumper, stop and go). In the department's system planning process, each state highway has a defined development concept of how it should operate in the year 2010 (a concept Level of Service), as well as a description of how it is operating today.

For this plan, the goal was to first identify IRRS roadway segments that are operating at LOS E or F, i.e., where traffic demand equals or exceeds their capacity. This analysis assumed that the 1988 STIP project improvements would be completed. Second, using traffic demand forecasts, each roadway segment was reexamined for the year 2000. The deficiencies identified in each stage are shown on Map Three. Generally, new capacity projects were selected for each roadway segment that was identified as deficient (i.e., operating at LOS E or F).

## Minimum Facility Development Standards:

For the Non-interstate High Emphasis Routes, an additional project need identifier was used. As these routes form the backbone of the state's highway network, a common facility type to achieve both route continuity and system integrity, was required. Thus, minimum facility development standards, which generally match the route's development concepts, were identified for each of these routes. Projects were identified where the standard is not currently met. These standards are listed in Table One. The roadway standard deficiencies are shown on Map Three.

## Other Project Identifiers:

Many route problems, however, do not fall into the above two categories. On many twolane roads in foothill and mountainous regions, insufficient passing opportunities exist. This problem has become more severe in recent years, due to increasing traffic volumes, and from the extension of solid yellow striping (a.k.a., "barrier striping") to more roadway segments to meet federal safety requirements. In other areas, the width and/or alignment of some highways is inadequate given the roadway volumes being carried today, and/or for the size of trucks using these routes. Projects to resolve these deficiencies were also identified for further analysis.

Besides route eligibility, other directions specified in the new statutes were also considered in the department's IRRS analysis. Those requirements, and how the department responded to them, are identified on the following page.

- "...which construction can be started not later than June 30, 2000...." All projects identified in this plan can be made ready for construction by this date. Actual project delivery schedules is dependent on the year they are included in the State Transportation Improvement Program (STIP).
- "The projects shall be on routes located outside the boundaries of urbanized areas..." This requirement is complied with. However, as permitted by statute, for route continuity purposes, some projects do extend to their first logical terminus inside an urbanized area.
- "...as designated by the most recent census of the Bureau of the Census." It is anticipated that after the 1990 Census, there will be an expansion of the existing urbanized area boundaries. Further, several new urbanized areas will be identified. As a result, many eligible IRRS route segments will no longer be part of the plan, or eligible for lRRS program funding
- "The projects shall be limited to meeting the needs of interregional traffic, excluding traffic generated as a result of local growth." Most routes in rural areas do serve both interregional and local needs. Thus, the department's approach was to identify projects that were not intended solely to serve local development and growth.

As they have a separate funding source, 1988 STIP projects on IRRS routes were treated as a previously funded part of the plan. However, there may be some cases where these projects will not be constructed as proposed due to environmental considerations, changes in local priorities, or increased project costs. Those 1988 STIP projects on the IRRS are identified in Appendix "C".

## B. PROJECT SELECTION

The new legislation required the department to reevaluate its highway priorities in rural areas, and revise the project evaluation process to more directly mirror program objectives, and rural highway needs, priorities and conditions. As revised, some of the project evaluation factors that were considered included:

- Will the project reduce congestion and/or provide passing opportunities?
- Does the project have public/regional transportation planning agency (RTPA) support?
- Will the project significantly increase roadway safety and/or resolve roadway geometric deficiencies?
- Is the roadway heavily used by five-axle trucks?
- Would the project result in a system gap closure?
- Is the project on a critical intercity travel, heavy truck, or military installation access route?
- Is the project cost effective, compared to other projects on other routes?

Some of the other factors that were considered included:

- Route Consistency - Is the project required to achieve consistency in the development of the route, and achieve the plan's intent?
- System Coordination - Is it likely that the project will link with another project funded from one of the other new funding programs?
- Level of Local Contributions - Is the region proposing to share a significant portion of the cost of the project?
- Environmental Effects - Would the project have significant adverse environmental effects that cannot be fully mitigated, or can be mitigated only at a very high time and/or financial cost?

In the final statewide selection of projects, two factors were particularly critical:

- Statewide Perspective - Do these projects stand together as an interregional road system improvement, rather than as just a collection of scattered projects? Do the projects together achieve the plan development objectives, particularly in regard to the upgrading of the High Emphasis Routes? Are the project proposals reasonable, given the likelihood of other federal, state and local funding?
- Local Input - Local input into the development of this plan was key. Regional Transportation Planning Agency (RTPA) input was sought. RTPAs' Regional Transportation Plans were reviewed. Copies of proposed project lists were shared and discussed. Input was also sought from California Transportation Commission (CTC) staff, from the CTC's Rural Counties Task Force, and from the CTC itself. Guidance was also sought from the Departmental Transportation Advisory Committee (DTAC), and from legislative staff. This input and guidance was incorporated at each step in the project identification and evaluation process, and in the development of this plan.


## IV. PLAN FUNDING AND PROJECT LISTS

## A. PLAN FUNDING LEVEL

In the $\$ 18.5$ billion transportation funding package, $\$ 1.25$ billion was allocated for Interregional Road System projects. This base amount is a significant investment that will make a substantial core system improvement. But, it is also apparent that the cost of resolving both the facility needs on the High Emphasis Routes, and the deficiencies on the other IRRS routes, far exceed this amount. Thus, a more narrowly focused system is more realistic of what can be accomplished at this funding level over the next ten years. For the most cost effective results, the department proposes that IRRS funding be focused on the development of the High Emphasis Routes identified in this plan.

Overall, though, this plan includes a list of IRRS projects which amount to about $\$ 3.0$ billion, in 1989 dollars, over the 10 -year plan period. This level of funding would be sufficient to complete the most important improvements identified on the the High Emphasis and Other Priority Routes. Most importantly, this level also provides the project flexibility to:

- Respond to funding increases from federal and state sources. For example, in 1991 a new federal transportation bill probably will be enacted. This bill may potentially provide additional funding for IRRS projects. Thus, this plan needs to be large enough so that as additional funding becomes available, additional IRRS projects will be available for project development.
- Replace IRRS projects that are funded from other sources. In some areas, some of the projects included in this plan will be eligible for, and may be funded from, other funding sources or programs. These include the Flexible Congestion Relief, the State/Local Partnership, and the Highway System Operation and Protection Plan (HSOPP). In addition, in some regions, significant local transportation sales tax, developer contributions, or other funds may be made available for IRRS projects. As these projects are partially or fully funded from these sources, other projects must be available to take their place.
- Respond to changing project priorities at the state and/or local level.
- Respond to changing project conditions (such as increased project mitigation
costs and unexpected project delays) which could affect project viability or scheduling.
- Identify projects for programming during the 1990s that will be constructed after June 30, 2000. Assuming the department's IRRS list of projects will cover a seven-year period (i.e., equivalent to the STIP period), then the 1993 list will have to include projects through FY 2000/2001, the first full fiscal year of the 21st century.


## B. PROJECT LISTS

For the reasons cited above, this plan includes about $\$ 3.0$ billion in projects over the 10 -year plan period. Approximately $\$ 1.8$ billion in projects are proposed on the noninterstate High Emphasis Routes; $\$ 800$ million on the Other Priority routes, and $\$ 400$ million on the rural interstate routes. Appendix "D" presents the IRRS projects by route. Appendix " E " lists the projects by county. The projects are summarized in Table Two. The projects, and their general location, are shown in a summarized fashion on Map Four.

## TABLE TWO: <br> PROJECT SUMMARY

| Project Type | Number <br> of Projects | Project <br> Costs* |
| :--- | ---: | ---: |
| New facilities (e.g., bypasses) | 54 | $\$ 1,016$ |
| Upgraded facilities (e.g., expressway to freeway, etc.) | 19 | 302 |
| Additional lanes | 126 | 1,405 |
| Truck climbing lanes | 11 | 125 |
| Passing lanes | 53 | 78 |
| Other projects | 15 | 88 |
| Grand Total | 278 | 3,014 |

[^1]The department presents these projects in the appendix along with these considerations:

- The project cost shown in the listing is the department's cost estimate for each project as of January, 1989, including right of way and construction. These are current costs and, as such, would have to be adjusted for inflation at the time the project is programmed for construction. Support and construction engineering costs would need to be added to the estimate at that time.

In addition, many of these projects have been identified without the benefit of the normal project analysis process. For many of these projects, Project Study Reports (PSRs) have not been prepared. Thus, the project location, description, and cost information should be treated as preliminary. In some cases, significant changes in project types, costs, and/or limits will occur. In general, additional refinement of these improvements will be required before they can be included in the STIP.

- This plan reflects conditions as they are known or can be predicted at this time.

Consequently, this plan will need to be updated in the future.

- The department has put forth in this plan what it believes should be developed, with concentration on the development of the High Emphasis Routes first. The final selection and funding of projects, though, is dependent on the programming process. Under the legislation, as part of its Proposed State Transportation Improvement Program (PSTIP), the department will recommend from this plan a list of IRRS projects for inclusion in the State Transportation Improvement Program (STIP). The California Transportation Commission, in the actual programming of projects, will be able to substitute projects from the IRRS Plan for ones proposed by the department. However, such changes will be able to be made only if the department concurs that the changes would not affect interregional road system integrity.


## V. PLAN IMPACT

In the development of this plan, the department responded to four objectives (see page 8). These objectives include the development of the High Emphasis Routes, and the improvement of route service levels. If this plan is fully implemented, to a large extent these objectives will be achieved. The remaining roadway service and facility deficiencies are shown on Map Five.

The specific impact of this plan can be characterized as follows:

- Improved facilities will be provided to the motorist, particularly on the High Emphasis Routes. New facilities, such as the Route 101 Willits Bypass, will be built. Routes 99 between Bakersfield and Sacramento will be upgraded to full freeway standards. Additional lanes, such as on Interstate 215, will be provided. Better access control, with the development of roadways to expressway or freeway standards, will result. Approximately 94 percent of the High Emphasis Route minimum facility standards will be achieved with the full implementation of this $\$ 3.0$ billion plan.
- The service level of the IRRS system will be improved. Congestion, as projected over the 10 -year plan period, will be 39 percent less than what would be expected to occur without the plan. Increased passing opportunities, separation of slow truck traffic, and less congestion will make roadway travel faster, easier, and safer.
- Access to rural areas, and between urban areas, will be enhanced. The capability of the system to handle interregional goods movement will be expanded. Truck access barriers, such as those along Route 299 between Redding and Eureka, will be eliminated.


## APPENDIX "A":

IRRS PLAN LEGISLATIVE DESCRIPTION
(Streets and Highways Code, Section 164.3)
(SB 300, Section 46)
(Chapter 105, 1989 Statutes)
164.3
(a) The department shall develop an interregional road system plan to be submitted to the Legislature not later than February 1, 1990."
(b) The plan shall identify projects on which construction can be started not later than June 30,2000 , which will provide the most adequate interregional road system to all economic centers in the state. The projects shall be on eligible routes identified pursuant to subdivision (e). The projects shall be on routes located outside the boundaries of urbanized areas of over 50,000 population as designated by the most recent census of the Bureau of the Census, except as necessary to provide connections for continuation of the routes within those urban areas.
(c) From the projects contained in the plan, the department shall by August 1, 1990, and by December 1 of each odd-numbered year thereafter, submit to the commission a list of projects included in the plan which will improve the interregional road system which can be constructed within the funding levels specified in Section 164 of this code and consistent with the funding estimate prepared pursuant to Section 14525 of the Government Code. The projects shall be limited to meeting the needs of interregional traffic, excluding traffic generated as a result of local growth.
(d) The commission may substitute projects included in the plan if the department concurs that the change will maintain interregional road system integrity.
(e) The eligible routes are those specified in Sections 164.10 to 164.20 , inclusive.

## APPENDIX "B": <br> IRRS ROUTES LEGISLATIVE DESCRIPTION

(Streets and Highways Code, Sections 164.10-164.20)
(SB 300, Sections 47-57)
(Chapter 105, 1989 Statutes)

For purposes of subdivision (e) of Section 164.3, the eligible interregional and intercounty routes include all of the following:

## Route $\quad$ Route Limits (if stated)

1

2 Between the north urban limits of Los Angeles-Long Beach and Route 138.

16 Between the east urban limits of Sacramento and Route 49
17 Between the north urban limits of Santa Cruz and the south urban limits of San Jose.

Between the north urban limits of San Bernardino-Riverside and Route 15.

## APPENDIX "B":

IRRS ROUTES LEGISLATIVE DESCRIPTION (cont'd)

## Route $\quad$ Route Limits (if stated)

36 Between Route 5 and Route 395.
37 Between the east urban limits of San Francisco-Oakland near Novato and the west urban limits of San Francisco-Oakland near Vallejo.

Between the east urban limits of San Bernardino-Riverside and Route 18 west of Big Bear Lake.

41 Between Route 1 and Yosemite National Park.
Between the east urban limits of Redding and Route 36.
46 Between Route 1 and Route 5.

Between Route 5 and Route 15.
*
Between the north urban limits of Visalia and Route 180.
Between the north urban limits of Bakersfield and Route 198 near
Exeter.

Between Route 111 in Brawley and Route 10.
Between Route 149 north of Oroville and Route 395.
*
*
Between Route 8 and Route 15.
*
*(If not stated, the entire route is included)

APPENDIX "B":

## IRRS ROUTES LEGISLATIVE DESCRIPTION (cont'd)

Route $\quad$ Route Limits (if stated)
99 With routing to be determined via Route 70 or via Route 99, between
Route 70 north of Sacramento and Route 149 north of Oroville.

101

Between Route 120 at Yosemite Junction and Route 395.
Between the Mexico border near Calexico and Route 10 near Whitewater.
Between Route 80 and Route 5.
Between Route 1 and Route 12.
Between Route 5 and Route 395.
Between the east urban limits of Oxnard-Ventura-Thousand Oaks and
Route 5.
*
*
Between Route 5 and Route 18.
Between Route 299 and the Oregon state line.
Between the east urban limits of Merced and Yosemite National Park.
Between Route 101 and Pinnacles National Monument.
*
Between Route 101 and Route 99.

Between Route 1 and Route 152.
Between the north urban limits of Antioch-Pittsburg and the south urban limits of Sacramenio.

Between the east urban limits of Fresno and Route 168 at Florence Lake
Road, and between 168 near Lake Sabrina and Route 395.
Between the east urban limits of Bakersfield and Route 14.
Between the east urban limits of Fresno and Kings Canyon National Park.
Between Route 65 and Route 127.
Between Route 5 and Sequoia National Park.
*(If not stated, the entire route is included)

APPENDIX "B":
IRRS ROUTES LEGISLATIVE DESCRIPTION (cont'd)
Route Route Limits (if stated)
199 *
203 *
205 *
207
215
243
267

Except within the urban limits of San Diego.
*(If not stated, the entire route is included)

APPENDIX "C":
1988 STIP PROJECTS ON IRRS ROUTES

| State Route | County | Beginning Post Mile | Ending Post Mile | Project Length | PROJECT DESCRIPTION LocalionName | Improvement | Caltrans District | 1988* <br> State Cost | 1988* Local Cost |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 4 | Alpine | 2.9 | 4.5 | 1.6 | Near Lake Alpine | Widen roadway | 10 | \$1,790 |  |
| 5 | Shasta | 49.8 | 51.7 | 1.9 | Fr. 1.0 miN to 2.9 mi N of Slate Cr. Br. (Seg. \#5) | Widen roadway \& construct interchange | 2 | \$7,514 |  |
| 5 | Shasta | 53.9 | 56.8 | 2.9 | Fr. $3.5 \mathrm{mi} \mathrm{S} \mathrm{to} 0.6 \mathrm{mi} \mathrm{S} \mathrm{of} \mathrm{Sims} \mathrm{Rd}. \mathrm{Uc}. \mathrm{(Seg}. \mathrm{\# 8)}$ | Reconstruct roadway \& add frontage road | 2 | \$8,535 |  |
| 14 | Kern | 25.5 | 30.7 | 5.2 | From 1.8 mi S Phillips Rd. to $4.7 \mathrm{ml} \mathrm{S} \mathrm{Jawbone} \mathrm{Cyn}. \mathrm{Rd}$. | Widen 2 lanes to 4 lane Expressway | 9 | \$4,480 |  |
| 14 | Kern | 30.7 | 35.5 | 4.8 | From 4.7 mi to 0.1 mi N of Jawbone Cyn. Rd. | Widen 2 lanes to 4 lane Expressway | 9 | \$5,345 |  |
| 14 | Kern | 62.1 | 64.5 | 2.4 | Junction Routes 14/395 | Widen 2 lanes to 4 lane Expressway | 9 | \$5,082 |  |
| 17 | Santa Clara | 3.8 | 5.1 | 1.3 | S. of Bear Creek to N of Montevina Rd. | Construct frontage roads | 4 | \$5,374 |  |
| 18 | San Bernardino | 49.1 | 51.6 | 2.5 | Big Bear | Widen 2 lanes to 4 lanes | 8 | \$6.074 | \$104 |
| 46 | San Luis Obispo | 29.7 | 32.2 | 2.5 | Rte 101 to Airport Rd. | Widen bridge \& roadway to 4 lanes | 5 | \$11,691 |  |
| 46 | San Luis Obispo | 32.2 | 55.1 | 22.9 | Airport Rd. to Route 41 W | Passing Lanes (Portions) | 5 | \$3,651 |  |
| 49 | El Dorado | 11.6 | 13.5 | 1.9 | Fr. Plsnt Vlly Rd to Future Ray Lawyer Dr. | Widen to 40 feet | 3 |  | \$1,090 |
| 49 | Placer | 7.7 | 11.2 | 3.5 | 0.3 mi N of Dry Crk Rd. to $0.2 \mathrm{mi} \mathrm{S} \mathrm{of} \mathrm{Nevada} \mathrm{Cl}. \mathrm{(por)}$ | Widen to 4 lanes \& left turn lane, bridge replacement | 3 | \$12,421 |  |
| 53 | Lake | 0.0 | 3.5 | 3.5 | Route 29 to 40th Ave. | Widen 2 lanes to 4 lane Expressway \& frontage road | 1 | \$13,366 |  |
| 58 | San Bernardino | 9.0 | 24.0 | 15.0 | $3.6 \mathrm{mi} \mathrm{E} \mathrm{of} \mathrm{Rt}$.395 to 0.6 mi W of Valley View | Widen 2 lanes to 4 lane Expressway | 8 | \$22,596 |  |
| 58 | San Bernardino | 28.3 | 34.9 | 6.6 | Near Summerset Rd. to Route15 (Phase 1) | Realign roadway | 8 | \$29,219 |  |
| 65 | Tulare | 21.9 | 29.5 | 7.6 | North of Porterville | Widen to 4 lane Expressway | 6 | \$9,980 |  |
| 70 | Plumas | 8.7 | 9.3 | 0.6 | Fr. 0.3 mi W to 0.3 mi E Chambers Cr. | Construct EB \& WB passing lanes | 2 | \$1,060 |  |
| 70 | Plumas | 23.9 | 24.4 | 0.5 | Fr. 0.2 mi to 0.7 mi E of Rush Cr. Br. \#9-26 (Old Jack's Place) | Construct EB \& WB passing lanes | 2 | \$574 |  |
| 80 | Solano | 27.8 | 31.2 | 3.4 | 0.6 mi W of Rte 505 to 0.2 mi W of Meridian | Widen 6 lane Freeway to 8 lanes | 10 | \$5,750 |  |
| 80 | Nevada | 19.3 | 20.2 | 0.9 | Union Mill Hill Truck lane | Construct truck lane (WB) | 3 | \$871 |  |
| 86 | Imperial | 21.2 | 23.9 | 2.7 | Las Flores Rd. to Elder Rd. | Widen to 4 lane Expressway | 11 | \$1,661 |  |
| 86 | Imperial | 23.9 | 29.0 | 5.1 | Elder Rd. to Lack Rd. | Widen to 4 lane Expressway | 11 | \$10,914 |  |
| 86 | Imperial | 29.0 | 33.6 | 4.6 | From Lack Rd. to $10 \mathrm{ml} \mathrm{S} \mathrm{of} \mathrm{Rt}$. | Widen to 4 lane Expressway | 11 | \$6,142 |  |
| 86 | Imperial | 33.6 | 37.6 | 4.0 | From $10 \mathrm{mi} \mathrm{S} \mathrm{to} 6 \mathrm{mi} \mathrm{S} \mathrm{of} \mathrm{N} \mathrm{Jct}$. Rt. 78 | Widen to 4 lane Expressway | 11 | \$5.131 |  |
| 86 | Imperial | 37.6 | 42.7 | 5.1 | From 6 ml S to $0.6 \mathrm{mi} \mathrm{Sof} \mathrm{NJct}$. Rt. 78 | Widen to 4 lane Expressway | 11 | \$8,965 |  |
| 86 | Riverside | R 2.4 | R10.7 | 8.3 | From $0.3 \mathrm{mi} \mathrm{S} \mathrm{of} \mathrm{Ave}$.82 to Ave. 66 (Rt. 195) | Construct 2 lane Expressway | 11 | \$17,174 |  |
| 86 | Riverside | R10.7 | R12.8 | 2.1 | S of Thermal, from Ave. 66 (Rt. 195 ) to Ave. 62 | Construct 2 lane Expressway | 11 | \$10,024 |  |
| 86 | Riverside | R12.8 | R22.5 | 9.7 | From Ave. 62 S of Thermal to 0.2 N of Dillion Rd. in Indio | Construct 2 lane Expressway | 11 | \$18,851 |  |
| 99 | Kern | 9.8 | 18.8 | 9.0 | Fr. 0.5 mi N of Herring Rd. to $0.7 \mathrm{mi} \mathrm{Sof} \mathrm{Panama} \mathrm{Ln}$. | Widen 4 lane Freeway to 6 lanes | 6 | \$9,736 |  |
| 101 | Monterey | R91.5 | 98.7 | 7.2 | Prunedale Bypass | Right of Way for 4 lane Freeway | 5 | \$4,198 | \$4,198 |

APPENDIX "C":
1988 STIP PROJECTS ON IRRS ROUTES (cont'd)

| State Route | County | Beginning Post Mile | Ending Post Mile | Project Length | PROJECT DESCRIPTION Location/Name | Improvement | Caltrans District | $\begin{aligned} & 1988^{*} \\ & \text { State Cost } \end{aligned}$ | $\begin{aligned} & \text { 1988* } \\ & \text { Local Cost } \end{aligned}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 101 | Sonoma | T49.8 | 54.2 | 4.4 | Cloverdale Bypass | Construct 4 lane Freeway on new alignment | 4 | \$38,379 |  |
| 101 | Mendocino | 4.9 | 9.2 | 4.3 | 4.9 to 9.2 mi N of Sonoma County line Russian River Br. \#10-82 | Construct 4 lane Expressway | 1 | \$10,761 |  |
| 101 | Del Norte | 20.3 | 22.3 | 2.0 | 2.1 to $0.9 \mathrm{mi} \mathrm{S} \mathrm{Hamilton} \mathrm{Rd}$. | Construct 4 lane Expressway on new alignment | 1 | \$17.851 |  |
| 126 | Ventura | 22.6 | 27.1 | 4.5 | J:. Fillmore Grade xing Powell Id. | Widen to 4 lames | 7 | \$12.261 |  |
| 126 | Ventura | 27.1 | 29.7 | 2.6 | 0.25 mi W of Pacific to 0.4 ni E of Center street | Widen to 4 lanes | 7 | \$7,906 |  |
| 126 | Ventura | 29.7 | 34.6 | 4.9 | 0.4 k Center street to L $\Lambda$ County line | Widen to 4 lanes | 7 | \$12.040 |  |
| 138 | I. 1 | 57.2 | 60.2 | 3.0 | 106th St/longview Rd. | Passing lanes, channelization | 7 | \$1.188 | \$1,188 |
| 138 | $\mathrm{L} \Lambda$ | 60.2 | 69.4 | 9.2 | Ave. T/Rt. 18 | Passing lanes, widen bridge, channelize | 7 | \$2.353 | \$2,353 |
| 138 | San Bernardino | R15.2 | 16.2 | 1.0 | Rt. 15 to Crowder Creek | Grade and pave on new alignment | 8 | \$1,904 |  |
| 138 | San Bernardino | 16.5 | 19.7 | 3.2 | $1.2 \mathrm{mi} \mathrm{F/o} \mathrm{Rt}$.15 to SMT Post Off Rd. | Construet 4 lane İxpressway | 8 | \$4.836 |  |
| 139 | Modoc | 22.3 | 23.3 | 1.0 | App 22.1 mi N of Canby fr 0.6 mi N of IIrse Cimp Rd to Qrnt Sta ITC. | Construct truck lane (SB) | 2 | \$444 |  |
| 156 | San Benito | 2.3 | 3.3 | 1.0 | In S.J Bautista 0.7 W to 0.3 E Mlameda | Widen to 4 lanes, signals | 5 | \$1,040 | \$750 |
| 156 | San Benito | 7.3 | 14.3 | 7.0 | Holister Bypass Union/San Folipe | Construct roadway | 5 | \$9,374 | \$6.250 |
| 178 | Kern | 23.1 | 23.4 | 0.3 | İr. 0.2 mi W to 0.1 mi li of Cow lelat Creek | Widen \& realign | 6 | \$844 |  |
| 178 | Kern | 26.4 | 28.1 | 1.7 | Fr $0.2 \mathrm{mi} \mathbf{W}$ of Demo. Rd to $0.1 \mathrm{mi} \mathbf{W}$ of Kern Ri. Cyn lid (Phase 1) | Passing lane | 6 | \$3,112 |  |
| 178 | Kern | 28.1 | R31.7 | 3.6 | Fr. 0.1 mi W of Kern Ri. Rd. to Kern Ri. Br. \# 50-278 | Construct Eastbound passing lane | 6 | \$730 |  |
| 215 | Riverside | R16.5 | R17.5 | 1.0 | Haun Rd. - between Garboni Rd. \& llolland Rd. | Pave 2 lane lirontage Rd. | 8 | \$5.54 |  |
| 21.5 | Riverside | 27.4 | 34.0 | 6.6 | $0.5 \mathrm{mi} \mathrm{S} \mathrm{of} \mathrm{Nuevo} \mathrm{Rd} \mathrm{to} 0.3 \mathrm{mi} \mathrm{S} \mathrm{of} \mathrm{Van} \mathrm{Brn} \mathrm{Blvd}$. | Convert to Freeway | 8 | \$37,831 | \$1.528 |
| 299 | Humboidt | R29.1 | 38.8 | 9.7 | Berry Summit Rd. to Rt. 96 | Truck passing lanes at selected locations | 1 | \$3,628 |  |
| 299 | Trinity | 6.6 | 7.7 | 1.1 | Fr. 0.3 mi E of Grey Cr. Br. Grey Cr. Rd. | Construct passing lanes EB \& WB | 1 | \$984 |  |
| 395 | Kern | 30.5 | 36.8 | 6.3 | 6.3 mi S to the Inyo County line | Convert to 4 lane Expressway | 9 | \$8.229 |  |
| 395 | Inyo | 0.0 | 0.7 | 0.7 | Fr. Inyo County line to 0.7 mi N of Inyo County line | Convert to 4 lane Expressway | 9 | \$768 |  |
| 395 | Inyo | 25.9 | 31.2 | 5.3 | Fr. $3.5 \mathrm{mi} S$ to 1.8 mi N Sage Flat Dr. | Convert to 4 lanes | 9 | \$5,449 |  |
| 395 | Inyo | 45.0 | 55.1 | 10.1 | $1.2 \mathrm{mi} \mathrm{S} \mathrm{Cottonwood} \mathrm{Rd}$.to 0.7 mi S of Jct. Rt. 136 | Convert to 4 lane Expressway | 9 | \$8,303 |  |
| 395 | Inyo | 54.6 | 59.0 | 4.4 | 1.2 mi S to 3.2 mi N Jct. Rt. 136 portions | Widen to 4 lanes | 9 | \$4,481 |  |
| 395 | Inyo | 58.8 | 66.5 | 7.7 | 0.1 mi N of Pangborn Ln. S to 0.9 miN LA aqueduct | Convert to 4 lane Expressway | 9 | \$11,653 |  |
| 395 | Mono | R26.3 | 33.8 | 7.5 | $0.5 \mathrm{mi} \mathrm{N} \mathrm{Jct}. \mathrm{Rt}$.203 to 0.1 mi N Owens River Rd. | Convert to 4 lanes | 9 | \$7,156 |  |
| 395 | Mono | 40.2 | 45.2 | 5.0 | Fr. 0.1 mi S Jct. Rt. 158 to $0.8 \mathrm{mi} \mathrm{S} \mathrm{of} \mathrm{Jct}. \mathrm{Rt}$.120 East | Realign \& construct N/B \& S/B | 9 | \$8,522 |  |
| 395 | Mono | 55.6 | 58.1 | 2.5 | Fr. 0.1 miS of Cementary Rd. to 0.1 mi S of Jct. Rt. 167 | Construct NB \& SB passing lanes | 9 | \$3.671 |  |
| 395 | Mono | 63.9 | 65.1 | 1.2 | Fr. 0.4 mi N to 1.6 N Virginia Lakes Hd. | Construct NB \& SB passing lanes | 9 | \$2,864 |  |

APPENDIX "C":
1988 STIP PROJECTS ON IRRS ROUTES (cont'd)

| State Route | County | Bepinning Post Mile | Ending Post Mile | Project Length | PROJECT DESCRIPTIDN Location/Name | Improvement | Caltrans District | $\begin{aligned} & 1988^{\circ} \\ & \text { State Cost } \end{aligned}$ | $\begin{aligned} & \text { 1988* } \\ & \text { Local Cost } \end{aligned}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 395 | Mono | 79.5 | 81.0 | 1.5 | Fr. 1.1 mi S to 0.4 mi N of Brigeport Ranger Station | Construct NB \& SB passing lanes | 9 | \$1,716 |  |
| 395 | Mono | 84.6 | 86.7 | 2.1 | Fr. 2.5 mi S to 1.4 mi S of Swauger Cyn. Rd. | Construct NB \& SB passing lanes | 9 | \$2,327 |  |
| 395 | Mono | 110.0 | 111.0 | 1.0 | Fr. Larson Ln. to 1.0 miN of Larson Ln. | Construct NB \& SB passing lanes | 9 | \$1,205 |  |
| 395 | Lassen | 9.5 | R15.9 | 6.4 | 1.2 mi N of Rt. 70 to Long Valley Cr. Br. \#7-23 | (2) SB \& (1) NB 1 mile passing lanes | 2 | \$1,328 |  |
| 395 | Lassen | 10.2 | 11.5 | 1.3 | 5.6 mi N Hallelujah Jct. to $4.4 \mathrm{mi} \mathrm{S} \mathrm{of} \mathrm{Long} \mathrm{}$. | Curve realign. \& passing lane | 2 | \$1,659 |  |
| 395 | Lassen | 26.6 | 29.8 | 3.2 | 1.4 mi S to 1.4 miN of Long Valley $\mathrm{Cr} \mathrm{Br} . \# 7-57$ | SB \& NB 1 mile passing lanes | 2 | \$957 |  |
| 395 | Lassen | 35.2 | 36.2 | 1.0 | Fr. 0.7 mi to 1.7 mi N Co. Rd. \#25 (Honeylake) | NB 1 mile passing lane | 2 | \$450 |  |
| 395 | Lassen | 40.2 | 47.3 | 7.1 | 0.2 miN of Bass Hill Rd. to Honey Lake Campground Rd. (Milford) | Construct NB \& SB passing lanes | 2 | \$900 |  |
| 395 | Lassen | 48.5 | 56.7 | 8.2 | Fr. 0.1 mi N County Rd. \#353 to County Rd. \#235 (Janesville) | Construct NB \& SB passing lanes | 2 | \$900 |  |
| Grand Total by Funding Source |  |  |  |  |  |  |  | \$488,727 | \$17,461 |
| High Emphasis Route |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |
| Note: Projects on IRRS routes included in other funding programs are not duplicated on this list. |  |  |  |  |  |  |  |  |  |

## APPENDIX "D":

IRRS PROJECT RECOMMENDATIONS BY ROUTE

| State <br> Route | County | Calirans District | Beginning Post Mile | Ending Post Mile | Prolect Length | PROJECT DESCRIPTION LocationName | Improvement | 1989* <br> State Cost | $\begin{aligned} & 1989^{\circ} \\ & \text { Local Cost } \\ & \hline \end{aligned}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1 | Orange | 12 | 11.5 | 12.4 | 0.9 | North of Laguna Beach | Widen 4 lanes to 6 lanes | \$2,076 |  |
| 1 | Ventura | 7 | 0.0 | 9.9 | 9.9 | Southern Ventura County | Spot widen to 4 lanes | \$4,900 |  |
| 1 | Monterey | 5 | 91.4 | 95.2 | 3.8 | Castroville to Watsonville | Widen 2 lanes to 4 lane Expressway | \$8,000 |  |
| 1 | Monterey | 5 | 95.2 | 98.4 | 3.2 | Castroville to Watsonville | Widen 2 lanes to 4 lane Expressway | \$15.000 |  |
| 1 | Monterey | 5 | 98.4 | 100.5 | 2.1 | Castroville to Watsonville | Widen 2 lanes to 4 lane Expressway | \$7,000 |  |
| 1 | Monterey | 5 | 100.5 | 101.5 | 1.0 | Castroville to Watsonville | Construct 4 lane lireeway + interchange | 80 | \$14,000 |
| 1 | Route Totals |  |  |  | 20.9 |  |  | \$36.976 | \$14.000 |
| 4 | Calaveras | 10 | R10.3 | R13.7 | 3.4 | 10 miles west of Altaville | Construct 2 lane Expressway on new alignment | \$8,080 |  |
| 4 | Calaveras | 10 | R13.7 | R16.4 | 2.7 | 5 miles west of Altaville | Construct 2 lane Expressway on new alignment | \$9,931 |  |
| 4 | Calaveras | 10 | R21.1 | R23.4 | 2.3 | Angels Bypass | Construct 2 lane Expressway on new alignment | \$8,300 |  |
| 4 | Route Totals |  |  |  | 8.4 |  |  | \$26,311 | \$0 |
| 5 | Kern | 6 | 4.5 | 15.0 | 10.5 | Lebec to Wheeler Ridge | Widen 8 lane Freeway to 10 lanes | \$17,130 |  |
| 5 | Sacramento | 3 | 27.2 | 33.5 | 6.3 | Sacramento to Metro Airport | Widen 4 lane Freeway to 6 lanes | \$12,000 |  |
| 5 | Tehama | 2 | 28.2 | 42.1 | 13.9 | Hooker Creek Hills | Widen 4 lane Freeway to 6 lanes | \$6,000 |  |
| 5 | Shasta | 2 | 0.0 | 3.7 | 3.7 | Cottonwood Hills | Add lane + widen bridges to 40 feet | \$8.570 |  |
| 5 | Shasta | 2 | 22.1 | 26.0 | 3.9 | Fawndale | Widen 4 lane Freeway to 6 lanes | \$700 |  |
| 5 | Shasta | 2 | 28.1 | R42.3 | 14.2 | Shasta Lake | Add lane | \$5,000 |  |
| 5 | Siskiyou | 2 | R51.2 | R58.2 | 7.0 | Anderson Grade | Add truck climbing lanes | \$5,000 |  |
| 5 | Route Totals |  |  |  | 59.5 |  |  | \$54.400 | $\$ 0$ |
| 12 | Napa | 4 | 0.0 | 3.3 | 3.3 | Route 29 to Route 80 (Napa) | Widen 2 lanes to 4 lanes | \$15,000 |  |
| 12 | Solano | 10 | 0.0 | R2.6 | 2.6 | Route 29 to Route 80 (Solano) | Widen 2 lanes to 4 lane Expressway | \$11,191 |  |
| 12 | Solano | 10 | 22.7 | 25.6 | 2.9 | Rio Vista | Widen \& realign | \$3,740 |  |
| 12 | Route Totals |  |  |  | 8.0 |  |  | \$29,931 | \$0 |
| 14 | Los Angeles | 7 | R33.4 | 43.3 | 9.9 | Santa Clarita to Escondido Summit | Widen 4 lane Freeway to 6 lanes | \$20,000 |  |
| 14 | Los Angeles | 7 | 43.3 | R58.2 | 14.9 | Escondido Summit to Palmdale | Widen 4 lane Freeway to 6 lanes | \$23,000 |  |
| 14 | Kern | 9 | 16.4 | 25.7 | 9.3 | 5 miles north of Mojave | Widen 2 lanes to 4 lane Expressway | \$7,983 |  |
| 14 | Kern | 9 | 20.1 | 20.5 | 0.4 | 4 miles north of Mojave | Construct California City Blvd interchange | \$5,000 |  |
| 14 | Kern | 9 | 42.2 | 46.2 | 4.0 | 28 miles north of Mojave | Widen 2 lanes to 4 lane Expressway | \$5,997 |  |
| 14 | Kern | 9 | 46.0 | 51.8 | 5.8 | 8 miles south of Freeman Junction | Widen 2 lanes to 4 lane Expressway | \$7.360 |  |
| 14 | Kern | 9 | 51.8 | 57.0 | 5.2 | 3 miles south of Freeman Junction | Widen 2 lanes to 4 lane Expressway | \$6,600 |  |
| 14 | Kern | 9 | 57.0 | 62.1 | 5.1 | 5 miles north of Freeman Junction | Widen 2 lanes to 4 lane Expressway | \$6,646 |  |
| 14 | Route Totals |  |  |  | 54.6 |  |  | \$82,586 | \$0 |

## APPENDIX "D":

IRRS PROJECT RECOMMENDATIONS BY ROUTE (cont'd)

| State <br> Route | County $\begin{aligned} & \text { Caltrals } \\ & \text { Oistric }\end{aligned}$ |  | Beginning Post Mile | Ending Post Mile | Project Length | PROJECT DESCRIPTION LocationName | Improvement | $\begin{aligned} & 1989^{*} \\ & \text { State Cost } \end{aligned}$ | 1989* Local Cost |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 15 | Riverside | 8 | 35.6 | 37.6 | 2.0 | Corona | Widen 6 lane Freeway to 8 lanes | \$6.600 |  |
| 15 | San Bernardino | 8 | 43.1 | 53.3 | 10.2 | North of Victorville | Widen 4 lane Freeway to 6 lanes | \$36,800 |  |
| 15 | San Bernardino | 8 | 70.0 | 74.4 | 4.4 | Barstow | Widen 4 lane Freeway to 6 lanes | \$14,500 |  |
| 15 | Route Totals |  |  |  | 16.6 |  |  | \$57,900 | \$0 |
| 16 | Sacramento | 3 | 4.0 | 12.0 | 8.0 | South of Mather AFB | Widen 2 lanes to 4 lanes + left turn lane | \$10,000 | \$1,000 |
| 16 | Route Totals |  |  |  | 8.0 |  |  | \$10,000 | \$1,000 |
| 17 | Santa Cruz | 4 | 10.8 | 11.9 | 1.1 | 11 miles north of Santa Cruz | Add truck climbing lane (NB) | \$3,500 |  |
| 17 | Route Totals |  |  |  | 1.1 |  |  | \$3,500 |  |
| 18 | San Bernardino | 8 | 31.7 | 34.5 | 2.8 | Running Springs | Widen 2 lanes to 4 lanes | \$3,900 |  |
| 18 | San Bernardino | 8 | 46.6 | 49.1 | 2.5 | Big Bear | Widen 2 lanes to 4 lanes | \$10,200 |  |
| 18 | San Bernardino | 8 | 51.6 | 53.9 | 2.3 | Big Bear City (W) | Widen 2 lanes to 4 lanes | \$5,500 |  |
| 18 | San Bernardino | 8 | 94.4 | 96.6 | 2.2 | Victorville | Widen 4 lanes to 6 lanes | \$2,400 |  |
| 18 | Route Totals |  |  |  | 9.8 |  |  | \$22,000 | \$0 |
| 20 | Mendocino | 1 | 43.0 | 44.1 | 1.1 | Mendocino/Lake County Line | Add passing lanes | \$2,500 |  |
| 20 | Lake | 1 | 0.0 | 0.6 | 0.6 | Mendocino/Lake County Line | Add passing lanes | \$1,000 |  |
| 20 | Colusa | 3 | 3.4 | 13.0 | 9.6 | Route 16 to Walnut Dr | Add passing lane | \$2.000 |  |
| 20 | Yuba | 3 | 8.2 | 10.1 | 1.9 | 10 miles east of Marysville | Widen, realign \& add passing lane | \$3,000 |  |
| 20 | Route Totals |  |  |  | 13.2 |  |  | \$8,500 | \$0 |
| 29 | Lake | 1 | 19.6 | 21.5 | 1.9 | Lower Lake Bypass | Construct 4 lane Expressway on new alignment | \$7,700 |  |
| 29 | Lake | 1 | 27.9 | 31.1 | 3.2 | Rte 281 to Rte 175 south of Kelseyville | Widen to 4 lane Expressway | \$5,400 |  |
| 29 | Lake | 1 | 31.2 | 32.4 | 1.2 | South Kelseyville | Add passing lanes | \$630 |  |
| 29 | Lake | 1 | R34.6 | R40.9 | 6.3 | Kelseyville to South Lakeport | Widen 2 lane Expressway to 4 lanes | \$14,900 |  |
| 29 | Lake | 1 | 35.1 | 36.1 | 1.0 | Kelseyville | Add passing lanes | \$950 |  |
| 29 | Route Totals |  |  |  | 13.6 |  |  | \$29,580 | \$0 |
| 36 | Lassen | 2 | 19.2 | 23.6 | 4.4 | Eagle Lake Rd | Add passing lanes | \$2,000 |  |
| 36 | Lassen | 2 | 23.6 | R27.5 | 3.9 | Susanville Bypass | Construct 4 lane Expressway on new alignment | \$29,000 |  |
| 36 | Lassen | 2 | R27.5 | R29.4 | 1.9 | Susanville Bypass Extension | Widen 2 lane Expressway to 4 lanes | \$6,000 |  |
| 36 | Route Totals |  |  |  | 10.2 |  |  | \$37,000 | \$0 |
| 38 | San Bernardino | 8 | 45.7 | 49.5 | 3.8 | Big Bear City (E) | Widen 2 lanes to 4 lanes | \$2.500 |  |
| 38 | Route Totals |  |  |  | 3.8 |  |  | \$2.500 | $\$ 0$ |

## APPENDIX "D":

IRRS PROJECT RECOMMENDATIONS BY ROUTE (cont'd)

| State Route | County $\begin{aligned} & \text { Caltra } \\ & \text { Districe }\end{aligned}$ |  | Beginning Post Mile | Ending Post Mile | Project Length | PROJECT DESCRIPTION Location/Name | Improvement | 1989* <br> State Cost | $1989^{*}$ <br> Local Cost |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 41 | Kings | 6 | 4.4 | 5.4 | 1.0 | 13 miles south of Kettleman City | ^dd passing lanes | \$1.150 |  |
| 41 | Kings | 6 | 12.2 | 13.2 | 1.0 | 5 miles south of Kettleman City | Add passing lane (NB) | \$1,040 |  |
| 41 | Kings | 6 | 13.5 | 15.4 | 1.9 | 4 miles south of Kettleman City | \dd passing lane (SB) | \$1.500 |  |
| 41 | Kings | 6 | 0.9 | 1.9 | 1.0 | 17 miles south of Kettleman City | Add passing lanes | \$570 |  |
| 41 | Kings | 6 | 7.0 | 8.0 | 1.0 | 10 miles south of Kettleman City | Add passing lanes (SB) | \$580 |  |
| 41 | Kings | 6 | 39.4 | R42.0 | 2.6 | Near Lemoore | Widen 2 lanes to 4 lane Expressway | \$9,070 |  |
| 41 | Fresno | 6 | R0.0 | R6. 1 | 6.1 | 20 miles south of Fresno | Widen 2 lane Expressway to 4 lanes | \$7,200 |  |
| 41 | Fresno | 6 | R6. 1 | R20. 1 | 14.0 | 10 miles south of Fresno | Construct 4 lane Expressway on new alignment | \$20,025 | \$20,025 |
| 41 | Fresno | 6 | R32.6 | R33.5 | 0.9 | North of Fresno | Construct 4 lane Frceway on new alignment | \$4,500 | \$4,500 |
| 41 | Madera | 6 | 0.0 | 2.2 | 2.2 | North of Fresno | Construct 4 lane Freeway on new alignment | \$20,800 |  |
| 41 | Madera | 6 | 2.2 | 3.6 | 1.4 | 2 miles north of Fresno | Construct 4 lane Freeway on new alignment | \$8,800 |  |
| 41 | Madera | 6 | 12.6 | 13.6 | 1.0 | 15 miles south of Coarsegold | Add passing lane (SB) | \$1,700 |  |
| 41 | Madera | 6 | 14.5 | 15.5 | 1.0 | 13 miles south of Coarsegold | Add passing lane (SB) | \$1,690 |  |
| 41 | Madera | 6 | 20.9 | 22.0 | 1.1 | 6 miles south of Coarsegold | ^dd passing lane (SB) | \$1,120 |  |
| 41 | Madera | 6 | 22.0 | 23.1 | 1.1 | 4 miles south of Coarsegold | Add passing lane (SB) | \$1,140 |  |
| 41 | Madera | 6 | 25.4 | 27.3 | 1.9 | 2 miles south of Coarsegold | Add passing lane (SB) | \$2,400 |  |
| 41 | Madera | 6 | 35.3 | 36.3 | 1.0 | Oakhurst | Widen 2 ianes to 4 lanes | \$3,050 | \$3,050 |
| 41 | Route Totals |  |  |  | 40.2 |  |  | \$86. 335 | \$27.575 |
| 44 | Shasta | 2 | R3.8 | R7.7 | 3.9 | Palo Cedro Fwy | Add lane (EB), modify interchange | \$13,500 |  |
| 44 | Shasta | 2 | R11.4 | R12.4 | 1.0 | The Dips | Construct 4 lane Expressway on new alignment | \$3,125 |  |
| 44 | Shasta | 2 | R14.8 | R15.9 | 1.1 | Bear Creek | Add passing lanes (EB \& WB) | \$920 |  |
| 44 | Shasta | 2 | R21.4 | 32.1 | 10.7 | Shingletown | Add passing lanes | \$4,000 |  |
| 44 | Shasta | 2 | R25.3 | R26.1 | 0.8 | Shasta Forest | Add passing lanes (EB) \& improve curve | \$576 |  |
| 44 | Shasta | 2 | 36.4 | 37.2 | 0.8 | Starlight Pines | Add passing lanes (EB) | \$400 |  |
| 44 | Shasta | 2 | 52.7 | 53.3 | 0.6 | Eskimo Hill | Add passing lanes (WB) | \$360 |  |
| 44 | Shasta | 2 | 65.2 | 66.2 | 1.0 | Hat Creek Rim | Add passing lanes (EB) | \$457 |  |
| 44 | Lassen | 2 | 27.0 | 37.3 | 10.3 | Worley Ranch | Add passing lanes | \$1,500 |  |
| 44 | Route Totals |  |  |  | 30.2 |  |  | \$24,838 | $\$ 0$ |
| 46 | San Luis Obispo | 5 | 32.2 | 36.4 | 4.2 | 5 miles east of Paso Robles | Widen 2 lane Expressway to 4 lanes | \$9,000 |  |
| 46 | San Luis Obispo | 5 | 36.4 | 40.6 | 4.2 | 8 miles east of Paso Robles | Widen 2 lane Expressway to 4 lanes | \$13,400 |  |
| 46 | San Luis Obispo | 5 | 40.6 | 43.5 | 2.9 | 12 miles east of Paso Robles | Widen 2 lane Expressway to 4 lanes | \$6,600 |  |
| 46 | Kern | 6 | 7.3 | 20.5 | 13.2 | Kecks Corner to Route 33 | Widen to 40 feet | \$6,100 |  |
| 46 | Kern | 6 | 20.5 | 32.5 | 12.0 | Route 33 to Route 5 | Widen to 40 feet | \$8,770 |  |
| 46 | Route Totals |  |  |  | 36.5 |  |  | \$4.3,870 | \$0 |

## APPENDIX "D":

IRRS PROJECT RECOMMENDATIONS BY ROUTE (cont'd)

| State Route | County $\begin{aligned} & \text { Caltr } \\ & \text { Distr }\end{aligned}$ |  | Beginning Post Mile | Ending Post Mile | Project Length | PROJECT DESCRIPTION Location/Name | Improvement | 1989* State Cost | 1989* <br> Local Cost |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 49 | Calaveras | 10 | 2.2 | 3.9 | 1.7 | 5 miles south of $\Lambda$ ngels Camp | Widen \& realign | \$4,120 |  |
| 49 | Amador | 0 | 3.1 | 3.9 | 0.8 | Jackson | Widen to 4 lanes + left turn lane | \$700 |  |
| 49 | Amador | 0 | 6.5 | R13.7 | 7.2 | Sutter Creek/Amador City Bypass | Construct 2 lane Expressway on new alignment | \$27,700 |  |
| 49 | Placer | 3 | 11.2 | 11.4 | 0.2 | Auburn to Grass Valley | Construct 4 lane Expressway | \$1.000 |  |
| 49 | Nevada | 3 | 0.0 | 2.0 | 2.0 | Auburn to Grass Valley | Construct 4 lane Expressway | \$10,000 |  |
| 49 | Nevada | 3 | 2.0 | 7.3 | 5.3 | Auburn to Grass Valley | Construct 4 lane Expressway | \$11,000 | \$11,000 |
| 49 | Nevada | 3 | 7.2 | 13.3 | 6.1 | Auburn to Grass Valley | Right of Way only for 4 lane Expressway | \$15,000 |  |
| 49 | Nevada | 3 | 8.8 | 10.1 | 1.3 | Auburn to Grass Valley | Add signals \& passing lanes (NB) | \$1,500 |  |
| 49 | Route Totals |  |  |  | 24.6 |  |  | \$71,020 | \$11,000 |
| 50 | El Dorado | 3 | R2.0 | R3.2 | 1.2 | Bass Lake Grade | Add truck climbing lane (EB) | \$1,000 |  |
| 50 | El Dorado | 3 | 17.3 | 18.1 | 0.8 | Placerville Freeway | Convert 4 lane Expressway to 4 lane Freeway | \$50,000 |  |
| 50 | El Dorado | 3 | 20.8 | R25.8 | 5.0 | Camino | Construct Freeway + interchange | \$17,000 |  |
| 50 | El Dorado | 3 | 54.7 | 56.0 | 1.3 | 3 miles west of Strawberry | Extend passing lanes (WB \& EB) | \$3,000 |  |
| 50 | Route Totals |  |  |  | 8.3 |  |  | \$71.000 | \$0 |
| 53 | Lake | 1 | 0.0 | 1.1 | 1.1 | Lower Lake Bypass | Construct 4 lane Expressway on new alignment | \$5,000 |  |
| 53 | Lake | 1 | 1.4 | 3.5 | 2.1 | Clearlake Expressway | Convert to Freeway | \$7,000 |  |
| 53 | Route Totals |  |  |  | 3.2 |  |  | \$12,000 | \$0 |
| 58 | Kern | 6 | 35.4 | R46.1 | 10.7 | 10 miles west of Bakersfield | Construct 4 lane Expressway on new alignment | \$18,500 |  |
| 58 | Kern | 9 | 80.3 | 89.5 | 9.2 | 5 miles west of Tehachapi | Add truck climbing lane (EB) | \$8,900 |  |
| 58 | Kern |  | R101.6 | 111.6 | 10.0 | 6 miles west of Mojave | Construct interchange \& upgrade to Freeway | \$6,710 |  |
| 58 | Kern |  | R108.7 | 117.0 | 8.3 | Mojave Bypass | Construct 4 lane Freeway on new alignment | \$30,185 |  |
| 58 | San Bernardino | 8 | 0.0 | 5.4 | 5.4 | Kern County to Route 395 | Widen 2 lanes to 4 lane Expressway | \$13,500 |  |
| 58 | San Bernardino | 8 | 5.4 | 9.0 | 3.6 | East of Route 395 | Widen 2 lanes to 4 lane Expressway | \$9,000 |  |
| 58 | San Bernardino | 8 | 9.0 | 12.9 | 3.9 | 5 miles east of Route 395 | Widen 2 lanes to 4 lane Expressway | \$9,800 |  |
| 58 | San Bernardino | 8 | 22.7 | 32.9 | 10.2 | Hinkley | Widen 2 lanes to 4 lane Expressway | \$25,500 |  |
| 58 | Route Totals |  |  |  | 61.3 |  |  | \$122,095 | So |
| 65 | Tuiare | 6 | 0.0 | R7.0 | 7.0 | 15 miles south of Porterville | Widen 2 lane Expressway to 4 lanes | \$7.700 |  |
| 65 | Tulare | 6 | R7.0 | 17.7 | 10.7 | 5 miles south of Porterville | Widen 2 lane Expressway to 4 lanes | \$11,800 |  |
| 65 | Tulare | 6 | 29.3 | R38.1 | 8.8 | Lindsay to Exeter | Construct 2 lane Expressway on new alignment | \$16.810 |  |
| 65 | Route Totals |  |  |  | 26.5 |  |  | \$36.310 | \$0 |

APPENDIX "D":
IRRS PROJECT RECOMMENDATIONS BY ROUTE (cont'd)

| State Roule | County | Calitrans District | Beginning <br> Post Mile | Ending Post Mile | Project Length | PROJECT DESCRIPTION Location/Name | Improvement | 1989* <br> State Cost | $\begin{aligned} & \text { 1989* } \\ & \text { Local Cost } \end{aligned}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 68 | Monterey | 5 | 12.6 | 15.0 | 2.4 | 5 miles west of Salinas | Construct 4 lane Freeway on now alignment | \$0 | \$33,550 |
| 68 | Route Totals |  |  |  | 2.4 |  |  | SO | \$33,550 |
| 70 | Plumas | 2 | 33.1 | 36.6 | 3.5 | Keddie (West) | Widen to 32 feet \& add truck climbing lane (EB) | \$3,705 |  |
| 70 | Plumas | 2 | 40.0 | 41.5 | 1.5 | Snake lake | Add passing lanes (EB \& WB) | \$1,910 |  |
| 70 | Plumas | 2 | 46.2 | 47.0 | 0.8 | La Porte Rd | Add passing lane (EB) | \$692 |  |
| 70 | Plumas | 2 | 48.1 | 48.8 | 0.7 | Chandler Rd | Add passing lane (EB) | \$595 |  |
| 70 | Plumas | 2 | 51.3 | 52.0 | 0.7 | West Slope Lee Summit | Add passing lane (EB) | \$552 |  |
| 70 | Plumas | 2 | 52.3 | 53.2 | 0.9 | West Slope Lee Summit | Add passing lane (ER) | \$626 |  |
| 70 | Route Totals |  |  |  | 8.1 |  |  | \$8.080 | $\$ 0$ |
| 74 | Orange | 12 | 1.5 | 2.8 | 1.3 | 2 miles east of San Juan Capistrano | Widen 2 lanes to 4 lanes + replace bridge | \$3,924 |  |
| 74 | Riverside | 8 | 0.0 | 11.8 | 11.8 | Ortega Highway | Widen 2 lanes to 4 lanes | \$16,500 |  |
| 74 | Riverside | 8 | 11.8 | R14.2 | 2.4 | Lake Elsinore | Widen 2 lanes to 4 lanes | \$2,700 |  |
| 74 | Riverside | 8 | 17.3 | 25.7 | 8.4 | Lake Elsinore to Perris | Widen 2 lanes to 4 lanes | \$11,000 | \$11.000 |
| 74 | Riverside | 8 | 25.7 | 27.5 | 1.8 | Perris | Widen 2 lanes to 4 lanes | \$3,400 | \$3,400 |
| 74 | Riverside | 8 | 34.3 | 37.4 | 3.1 | 5 miles west of Hemet | Widen 4 lanes to 6 lanes | \$3,300 |  |
| 74 | Route Totals |  |  |  | 28.8 |  |  | \$40.824 | \$14,400 |
| 80 | Solano | 10 | 31.2 | 40.6 | 9.4 | Dixon | Widen 6 lane Freeway to 8 lanes | \$17,470 |  |
| 80 | Yolo | 3 | 0.0 | 9.1 | 9.1 | Davis to West Sacramento | Widen 6 lane Freeway to 8 lanes | \$33,000 |  |
| 80 | Route Totals |  |  |  | 18.5 |  |  | \$50,470 | $\$ 0$ |
| 86 | Imperial | 11 | 21.2 | 23.9 | 2.7 | North of Brawley | Wlden 2 lanes to 4 lane Expressway | \$8,200 |  |
| 86 | Riverside | 11 | R2.4 | R10.7 | 8.3 | 15 miles south of Coachella (Stage 2) | Construct 4 lane Expressway on new alignment | \$15,800 |  |
| 86 | Riverside | 11 | R10.7 | R12.8 | 2.1 | 10 miles south of Indio | Upgrade 4 lane Expressway to 4 lane Freeway | \$4,500 |  |
| 86 | Riverside | 11 | R12.8 | R22.5 | 9.7 | 10 miles south to Indio | Upgrade 4 lane Expressway to 4 lane Freeway | \$6,000 |  |
| 86 | Route Totals |  |  |  | 22.8 |  |  | \$34,500 | \$0 |
| 88 | Amador | 10 | 27.1 | 43.6 | 16.5 | Cooks Station | Widen, add passing lanes and left turn lane | \$7,920 |  |
| 88 | Route Totals |  |  |  | 16.5 |  |  | \$7,920 | \$0 |
| 97 | Siskiyou | 2 | L0.4 | 4.4 | 4.0 | Weed | Add 2 lanes for 4 lane Expressway | \$6,131 |  |
| 97 | Siskiyou | 2 | 27.6 | 28.6 | 1.0 | Tennant Bray | Add passing lane (NB) | \$501 |  |
| 97 | Siskiyou | 2 | 33.0 | 34.4 | 1.4 | North Slope Mt. Hebron | Add passing lane (SB) | \$701 |  |
| 97 | Siskiyou | 2 | 49.3 | 51.8 | 2.5 | Dorris | Construct 4 lane Expressway on new alignment | \$10,100 |  |
| 97 | Route Totals |  |  |  | 8.9 |  |  | \$17,433 | \$0 |

## APPENDIX "D":

IRRS PROJECT RECOMMENDATIONS BY ROUTE (cont'd)

| State <br> Route | County $\quad \begin{gathered}\text { Caltran } \\ \text { District }\end{gathered}$ |  | Beginning Post Mile | Ending Post Mile | Project Length | PROJECT DESCRIPTION Location/Name | Improvement | 1989* <br> Slate Cos | $\begin{aligned} & \text { 1989* } \\ & \text { Local Cost } \end{aligned}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 99 | Kern | 6 | R29.9 | 36.5 | 6.6 | 10 miles north of Bakersfield | Widen 6 lane Freeway to 8 lanes | \$10,800 |  |
| 99 | Kern | 6 | 36.5 | 44.7 | 8.2 | 20 miles north of Bakersfield | Widen 6 lane Freeway to 8 lanes | \$10,800 |  |
| 99 | Kern | 6 | 49.4 | 57.6 | 8.2 | McFarland to Delano | Widen 4 lane Freeway to 6 lanes | \$20.580 |  |
| 99 | Tulare | 6 | 0.0 | 9.2 | 9.2 | Delano to Earlimart | Widen 4 lane Freeway to 6 lanes | \$11,400 |  |
| 99 | Tulare | 6 | 9.2 | 18.4 | 9.2 | Pixley to Tipton | Widen 4 lane Freeway to 6 lanes | \$10,860 |  |
| 99 | Tulare | 6 | 30.6 | 39.6 | 9.0 | Tulare to Near Visalia | Widen 4 lane Freeway to 6 lanes | \$12,050 |  |
| 99 | Tulare | 6 | 39.6 | R53.9 | 14.3 | Visalia to Kingsburg | Widen 4 lane Freeway to 6 lanes | \$18,550 |  |
| 99 | Fresno | 6 | 0.0 | 6.4 | 6.4 | Kingsburg to Selma | Widen 4 lane Freeway to 6 lanes | \$12,750 |  |
| 99 | Fresno | 6 | 6.4 | 9.0 | 2.6 | Selma to Fowler | Widen 6 lane Freeway to 8 lanes | \$3,200 |  |
| 99 | Fresno | 6 | 9.0 | 12.3 | 3.3 | Fowler | Widen 6 lane Freeway to 8 lanes | \$4,990 |  |
| 99 | Madera | 6 | 0.0 | 1.0 | 1.0 | 10 miles south of Madera | Widen 4 lane Freeway to 6 lanes | \$5,000 |  |
| 99 | Madera | 6 | 1.0 | 3.6 | 2.6 | 8 miles south of Madera | Widen 4 lane Freeway to 6 lanes | \$2,900 |  |
| 99 | Madera | 6 | 19.9 | 22.7 | 2.8 | Fairmead | Convert 4 lane Expwy to 4 lane Fwy plus interchange | \$8,000 |  |
| 99 | Merced 10 | 0 | 0.0 | 4.6 | 4.6 | 5 miles north of Chowchilla | Convert 4 lane Expressway to 4 lane Freeway | \$20,319 |  |
| 99 | Merced 10 | 0 | 4.6 | 12.1 | 7.5 | South of Merced | Convert 4 lane Expressway to 4 lane Freeway | \$32,980 |  |
| 99 | Merced 10 | 0 | 23.8 | 26.8 | 3.0 | North of Atwater | Convert 4 lane Expressway to 4 lane Freeway | \$15,629 |  |
| 99 | Merced 10 | 0 | 26.8 | R28.8 | 2.0 | Livingston Freeway (South End) | Convert 4 lane Expressway to 4 lane Freeway | \$15,446 |  |
| 99 | Merced 10 |  | R31.7 | R32.8 | 1.1 | Livingston Freeway | Convert 4 lane Expressway to 4 lane Freeway | \$4,869 |  |
| 99 | Merced |  | 32.8 | R36.3 | 3.5 | Delhi Freeway (Stage 2) (portions) | Convert 4 lane Expressway to 4 lane Freeway | \$14,120 |  |
| 99 | San Joaquin | 0 | 1.9 | 5.8 | 3.9 | Ripon to Manteca | Widen 4 lane Freeway to 6 lanes | \$5,500 |  |
| 99 | San Joaquin 10 | 0 | 5.8 | 16.5 | 10.7 | Manteca to Stockton | Widen 4 lane Freeway to 6 lanes | \$15,500 |  |
| 99/70 | ButteSutter | 3 |  |  | 66.0 | Sacramento to Chico | To be determined (Pending 99/70 Study) | \$35,000 |  |
| 99/70 | ButteSutter/Yuba | 3 |  |  |  | Sacramento to Chico | To be determined (Pending 99/70 Study) | \$40,000 |  |
| 99 | Butte | 3 | 21.7 | 21.9 | 0.2 | Junction 99/149 | Construct interchange | \$7,000 |  |
| 99 | Butte | 3 | 41.2 | 44.3 | 3.1 | 10 miles north of Chico | Add passing lane | \$1,500 |  |
| 99 | Tehama | 2 | 0.0 | 4.5 | 4.5 | 15 miles north of Chico | Widen 2 lane Expressway to 4 lanes | \$5,200 |  |
| 99 | Route Totals |  |  |  | 193.5 |  |  | \$344.94.3 | \$0 |
| 101 | Ventura | 7 | R39.9 | R43.2 | 3.3 | 15 miles west of Ventura | Upgrade to 6 lane Freeway | \$25,000 |  |
| 101 | Santa Barbara | 5 | 1.1 | 4.0 | 2.9 | Carpinteria | Widen 4 lane Freeway to 6 lanes | \$22,000 | \$10.000 |
| 101 | Santa Barbara | 5 | 4.0 | 7.1 | 3.1 | Carpinteria | Widen 4 lane Freeway to 6 lanes | \$13.000 |  |
| 101 | Santa Barbara | 5 | 62.7 | 62.7 | 0.0 | Los Alamos at North Junction 101/154 | Construct interchange | \$2,000 | \$5,000 |
| 101 | Santa Barbara | 5 | 82.8 | 87.2 | 4.4 | 5 miles south of Santa Maria | Widen 4 lane Freeway to 6 lanes | \$20,000 |  |
| 101 | San Luis Obispo | 5 | 0.0 | 0.8 | 0.8 | 2 miles north of Santa Maria | Widen 4 lane Freeway to 6 lanes | \$24,000 |  |
| N |  |  |  |  |  |  |  |  |  |

## APPENDIX "D":

IRRS PROJECT RECOMMENDATIONS BY ROUTE (cont'd)

| State Route | CountyCaltrans <br> District |  | Beginning Post Mile | Ending Post Mlle | Project Length | PROJECT DESCRIPTIOM Location/Name | Improvement | 1989* <br> State Cost | $\begin{aligned} & \text { 1989* } \\ & \text { Local Cost } \end{aligned}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 101 | San Luis Obispo | 5 | 13.2 | 16.4 | 3.2 | Arroyo Grande to Pismo Beach | Widen 4 lane Freeway to 6 lanes | \$20,000 |  |
| 101 | San Luis Obispo | 5 | 27.5 | 30.0 | 2.5 | San Luis Obispo | Widen 4 lane Freeway to 6 lanes | \$15,000 |  |
| 101 | San Luis Obispo | 5 | 30.0 | 36.0 | 6.0 | Cuesta Grade | Add truck climbing lane (NB) | \$26,000 |  |
| 101 | Monterey | 5 | R91.5 | 98.7 | 7.2 | Prunedale Bypass | Construct 4 lane Freeway on new alignment | \$70,000 | \$70,000 |
| 101 | Monterey | 5 | 98.7 | 101.3 | 2.6 | Prunedale Bypass Extension | Widen 4 lane Freeway to 6 lanes | \$14,000 |  |
| 101 | San Benito | 5 | 0.0 | 3.1 | 3.1 | South of Route 156 | Upgrade to 6 lanes | \$22,000 |  |
| 101 | San Benito | 5 | 3.1 | 7.6 | 4.5 | North of Route 156 | Upgrade to 6 lanes | \$16,000 |  |
| 101 | Santa Clara | 4 | 0.1 | 4.6 | 4.5 | 5 miles south of Gilroy | Convert 4 lane Expressway to 4 lane Freeway | \$13,500 |  |
| 101 | Santa Clara | 4 | 6.0 | 6.1 | 0.1 | Gllroy at South Junction 101/152 | Add collector road \& loop ramp | \$560 |  |
| 101 | Marin | 4 | 23.1 | 27.6 | 4.5 | 5 miles north of Novato | Convert to 4 lane Freeway plus 2 new interchanges | \$19,820 |  |
| 101 | Sonoma | 4 | 0.0 | 1.3 | 1.3 | 5 miles south of Petaluma | Convert 4 lane Expressway to 4 lane Freeway | \$20,940 |  |
| 101 | Sonoma | 4 | 1.3 | 3.2 | 1.9 | Petaluma | Convert 4 lane Expressway to 4 lane Freeway | \$13,130 |  |
| 101 | Mendocino | 1 | 9.2 | 13.0 | 3.8 | Hopland Bypass | Construct 4 lane Freeway on new alignment | \$31,100 |  |
| 101 | Mendocino | 1 | 13.0 | 17.6 | 4.6 | North Hopland Expressway | Widen 2 lanes to 4 lane Expressway | \$15,000 |  |
| 101 | Mendocino | 1 | 37.3 | 40.5 | 3.2 | Ridgewood Grade | Realign 4 lane Expressway | \$12,000 |  |
| 101 | Mendocino | 1 | T43.5 | 50.8 | 7.3 | Willits Bypass | Construct 4 lane Freeway on new alignment | \$60,000 |  |
| 101 | Mendocino | 1 | 70.6 | 71.1 | 0.5 | North Laytonville | Add passing lanes (Extend SB) | \$280 |  |
| 101 | Mendocino | 1 | 72.0 | 73.0 | 1.0 | North Laytonville | Add passing lanes (NB) | \$650 |  |
| 101 | Humboldt | 1 | 57.0 | 58.8 | 1.8 | Alton at Junction 101/36 | Construct interchange | \$4,700 |  |
| 101 | Humboldt | 1 | 109.5 | R112.9 | 3.4 | Big Lagoon Expressway | Construct 4 lane Expressway on new alignment | \$23,800 |  |
| 101 | Humboldt | 1 | T114.0 | 115.3 | 1.3 | Dry Lagoon to Stone Lagoon | Construct 4 lane Expressway on new alignment | \$3,000 |  |
| 101 | Humboldt | 1 | 115.3 | 118.0 | 2.7 | Stone Lagoon to Freshwater Lagoon | Construct 4 lane Expressway on new alignment | \$15,000 |  |
| 101 | Humboldt | 1 | 118.0 | 119.3 | 1.3 | Freshwater Lagoon Expressway | Widen to 4 lane Expressway | \$1,300 |  |
| 101 | Del Norte | 1 | 12.5 | 16.3 | 3.8 | Wilson Creek Bypass | Construct 4 lane Expressway on new alignment | \$41,000 |  |
| 101 | Del Norte | 1 | 23.5 | 25.8 | 2.3 | Crescent City Flat | Widen 2 lanes to 4 lane Expressway | \$5,700 |  |
| 101 | Route Totals |  |  |  | 92.9 |  |  | \$570,480 | \$85,000 |
| 108 | Tuolomne | 10 | R2.0 | R6.9 | 4.9 | East Sonora Bypass | Right of Way only for 4 lane Freeway | \$10,300 |  |
| 108 | Tuolomne | 10 | R2.0 | R4.5 | 2.5 | East Sonora Bypass | Construct 2 lane Expressway on new alignment | \$17,138 |  |
| 108 | Tuolomne | 10 | R4.5 | R6. 9 | 2.4 | 5 miles east of Sonora | Construct 2 lane Expressway on new alignment | \$15,100 |  |
| 108 | Route Totals |  |  |  | 9.8 |  |  | \$42,538 | \$0 |
| 111 | Imperial | 11 | 8.3 | 13.1 | 4.8 | Route 8 to Worthington | Widen 2 lanes to 4 lane Expressway | \$24,800 |  |
| 111 | Imperial | 11 | 13.1 | 17.6 | 4.5 | Worthington to Keystone | Widen 2 lanes to 4 lane Expressway | \$17,300 |  |
| 111 | Imperial | 11 | 17.6 | 22.0 | 4.4 | Keystone to Route 78 | Widen 2 lanes to 4 lane Expressway | \$19,000 |  |
| 111 | Route Totals |  |  |  | 13.7 |  |  | \$61,000 | \$0 |

## APPENDIX "D":

IRRS PROJECT RECOMMENDATIONS BY ROUTE (cont'd)

| State Roule | County | Calirans District | Beginning Post Mile | Ending Post Mile | Praject Length | PROJECT OESCRIPTION LocationName | Improvement | 1989* <br> State Cost | $\begin{aligned} & 1989^{*} \\ & \text { Local Cost } \\ & \hline \end{aligned}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 120 | San Joaquin | 10 | R1.4 | T6.9 | 5.5 | Manteca Bypass | Convert to 4 lane Freeway | \$20,000 |  |
| 120 | San Joaquin | 10 | 6.2 | 7.3 | 1.1 | East Manteca | Widen to 4 lanes plus left turn lane | \$1,545 |  |
| 120 | Stanislaus | 10 | 3.5 | R6.3 | 2.8 | Oakdale Bypass (Phase 1) | Construct 2 lane Expressway on new alignment | \$14,030 |  |
| 120 | Stanislaus | 10 | R6. 2 | R6.5 | 0.3 | Oakdale Bypass (Phase 2) | Construct interchange | \$4,000 |  |
| 120 | Stanislaus | 10 | 7.3 | 10.3 | 3.0 | 5 miles east of Oakdale | Widen 2 lane Expressway to 4 lanes | \$6,367 |  |
| 120 | Stanislaus | 10 | R11.2 | R15.0 | 3.8 | Lover's Leap Bypass | Construct 4 lane Expressway on new alignment | \$36,128 |  |
| 120 | Stanislaus | 10 | R15.0 | R17.3 | 2.3 | 10 miles east of Oakdale | Widen 2 lanes to 4 lane Expressway | \$7,060 |  |
| 120 | Route Totals |  |  |  | 18.8 |  |  | \$89,130 | \$0 |
| 126 | Los Angeles | 7 | 0.0 | R5.2 | 5.2 | Ventura County to Route 5 | Widen 2 lanes to 4 lanes | \$10,600 | \$3,000 |
| 126 | Route Totals |  |  |  | 5.2 |  |  | \$10,600 | \$3,000 |
| 138 | Los Angeles | 7 | 51.4 | 69.4 | 18.0 | Palmdale to Route 18 (Stage 2) | Widen 2 lanes to 4 lanes | \$18,000 |  |
| 138 | Los Angeles | 7 | 60.2 | 65.5 | 5.3 | Pearblossom (Stage 1) | Widen 2 lanes to 4 lanes \& add bridge | \$6,600 |  |
| 138 | Los Angeles | 7 | 69.4 | 75.0 | 5.6 | Route 18 to San Bernardino County | Widen 2 lanes to 4 lanes | \$8,000 |  |
| 138 | Route Totals |  |  |  | 28.9 |  |  | \$32,600 | \$0 |
| 152 | Santa Clara | 4 | 9.9 | 10.0 | 0.1 | Gllroy at North Junction 101/152 | Construct ultimate interchange | \$8,000 |  |
| 152 | Santa Clara | 4 | 11.1 | 22.1 | 11.0 | Route 101 to Route 156 (Stage 1) | Construct 4 lane Expressway on new alignment | \$36.000 |  |
| 152 | Santa Clara | 4 | 11.1 | 22.1 | 11.0 | Route 101 to Route 156 (Stage 2) | Construct 4 lane Expressway on new alignment | \$40,000 |  |
| 152 | Santa Clara | 4 | 14.9 | 16.3 | 1.4 | 7 miles west of Route 156 | Add passing lane | \$2,800 |  |
| 152 | Santa Clara | 4 | 19.9 | 21.1 | 1.2 | 2 miles west of Route 156 | Add passing lanes (EB) | \$2,800 |  |
| 152 | Merced | 10 | 17.3 | 23.7 | 6.4 | Los Banos Bypass | Construct 2 lane Expressway on new alignment | \$24,995 |  |
| 152 | Route Totals |  |  |  | 31.1 |  |  | \$114,595 | \$0 |
| 156 | Monterey | 5 | R1.3 | T5.2 | 3.9 | Castroville to Prunedale | Construct 4 lane Freeway | \$25,000 |  |
| 156 | San Benito | 5 | 3.3 | 7.3 | 4.0 | San Juan Bautista | Widen 2 lanes to 4 lane Expressway | \$11,000 |  |
| 156 | Route Totals |  |  |  | 7.9 |  |  | \$36,000 | \$0 |
| 168 | Fresno | 6 | 8.5 | T22.9 | 14.4 | 9 miles east of Clovis | 4 lane Expressway to Shepherd; 2 lane Expressway to end | \$10,750 | \$10,750 |
| 168 | Fresno | 6 | T22.9 | R27.4 | 4.5 | 16 miles east of Clovis | Construct 2 lane Expressway plus passing lane | \$6,750 | \$6,750 |
| 168 | Route Totals |  |  |  | 18.9 |  |  | \$17,500 | \$17,500 |
| 180 | Fresno | 6 | 67.6 | 71.6 | 4.0 | 8 miles east of Fresno | Construct 4 lane Expressway on new alignment | \$5,400 | \$5,400 |
| 180 | Fresno | 6 | 71.6 | 75.0 | 3.4 | 15 miles east of Fresno | Construct 4 lane Expressway on new alignment | \$5,700 | \$5,700 |
| 180 | Fresno | 6 | 75.0 | 78.2 | 3.2 | 20 miles east of Fresno | Construct 4 lane Expressway on new alignment | \$6,100 | \$6,100 |
| 180 | Route Totals |  |  |  | 10.6 |  |  | \$17,200 | \$17,200 |

APPENDIX "D":
IRRS PROJECT RECOMMENDATIONS BY ROUTE (cont'd)

| State <br> Route | County $\begin{aligned} & \text { Caltrans } \\ & \text { Distric }\end{aligned}$ |  | Beginning Post Mile | Ending Post Mile | Project Length | PROJECT DESCRIPTION Localion/Name | Improvement | $\begin{aligned} & 1989^{*} \\ & \text { State Cost } \\ & \hline \end{aligned}$ | 1989* Local Cost |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 198 | Kings | 6 | T21.5 | 28.3 | 6.8 | East of Hanford | Widen 2 lanes to 4 lane Expressway | \$9,730 |  |
| 198 | Tulare | 6 | 0.0 | R3.3 | 3.3 | East of Hanford | Widen 2 lanes to 4 lane Expressway | \$6,700 |  |
| 198 | Tulare | 6 | 29.7 | 34.4 | 4.7 | 5 miles east of Lemon Cove | Extend passing lane (EB) | \$1.200 |  |
| 198 | Route Totals |  |  |  | 14.8 |  |  | \$17.630 | \$0 |
| 199 | Del Norte | 1 | 9.3 | 10.1 | . 8 | Hardscrabble Creek | Add passing lanes | \$480 |  |
| 199 | Route Total |  |  |  | . 8 |  |  | \$480 | \$0 |
| 205 | San Joaquin | 0 | L0.0 | R12.8 | 12.8 | Tracy | Widen 4 lane Freeway to 6 lanes | \$29,969 |  |
| 205 | Route Totals |  |  |  | 12.8 |  |  | \$29,969 | \$0 |
| 215 | Riverside | 8 | R9.0 | 18.5 | 9.5 | Rancho California | Widen 4 lane Freeway to 6 lanes | \$28,600 |  |
| 215 | Riverside | 8 | 18.5 | 23.2 | 4.7 | Sun City | Widen 4 lane Freeway to 6 lanes | \$15,500 |  |
| 215 | Riverside | 8 | 23.2 | 27.6 | 4.4 | South of Perris | Widen 4 lane Freeway to 6 lanes | \$14,500 |  |
| 215 | Route Totals |  |  |  | 18.6 |  |  | \$58.600 | \$0 |
| 267 | Placer | 3 | 4.0 | 6.5 | 2.5 | North Star | Add passing lanes (SB) | \$1,500 |  |
| 267 | Nevada | 3 | 0.0 | R2.8 | 2.8 | Truckee Bypass | Construct 4 lane Expressway on new alignment | \$20,000 | \$6,000 |
| 267 | Route Totals |  |  |  | 5.3 |  |  | \$21,500 | \$6,000 |
| 299 | Humboldt | 1 | 41.1 | 42.5 | 1.4 | Humboldt/Trinity County Line | Add passing lanes | \$860 |  |
| 299 | Trinity | 2 | 29.4 | 30.2 | 0.8 | Manzanita Creek | Add passing lanes (WB) | \$831 |  |
| 299 | Trinity | 2 | 37.1 | 37.9 | 0.8 | Helena | Add passing lanes (EB) | \$2,102 |  |
| 299 | Trinity | 2 | 44.8 | 45.6 | 0.8 | Junction City | Add passing lanes (EB \& WB) | \$904 |  |
| 299 | Trinity | 2 | 45.5 | 46.9 | 1.4 | Oregon Mountain | Add truck climbing lane (EB) | \$2,100 |  |
| 299 | Trinity | 2 | 49.2 | 54.4 | 5.2 | Weaverville | Improve capacity | \$20,200 |  |
| 299 | Trinity | 2 | 56.7 | 57.1 | 0.4 | Weaver Creek | Add passing lanes (WB) | \$645 |  |
| 299 | Trinity | 2 | 72.0 | 72.3 | 0.3 | Buckhorn | Realign \& widen 2 lanes to 4 lane Expressway | \$1,500 |  |
| 299 | Shasta | 2 | 0.0 | 8.5 | 8.5 | Buckhorn | Realign \& widen 2 lanes to 4 lane Expressway | \$52,700 |  |
| 299 | Shasta | 2 | 16.4 | 17.5 | 1.1 | Shasta Divide | Add truck climbing lane (WB) | \$760 |  |
| 299 | Shasta | 2 | 17.7 | 19.0 | 1.3 | Old Shasta | Construct 4 lane Expressway on new alignment | \$3,750 |  |
| 299 | Route Totals |  |  |  | 22.0 |  |  | \$86,352 | \$0 |
| 395 | San Bernardino | 8 | R4.0 | 11.2 | 7.2 | 10 miles south of Adelanto | Widen 2 lanes to 4 lane Expressway | \$10.100 |  |
| 395 | San Bernardino | 8 | 11.2 | 18.9 | 7.7 | Adelanto | Widen 2 lanes to 4 lane Expressway | \$10,800 |  |
| 395 | San Bernardino | 8 | 18.9 | 46.0 | 27.1 | Adelanto to Route 58 | Widen 2 lanes to 4 lane Expressway | \$29,500 |  |
| 395 | San Bernardino | 8 | 46.0 | 73.5 | 27.5 | Route 58 to Red Mountain | Widen 2 lanes to 4 lane Expressway | \$38,500 |  |

APPENDIX " D ":
IRRS PROJECT RECOMMENDATIONS BY ROUTE (cont'd)

| State Route | County | Caltrans District | Beginning Post Mile | Ending Post Mile | Project Length | PROJECT OESCRIPTION Location/Name | Improvement | 1989* State Cost | 1989* Local Cost |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 395 | Kern | 9 | 0.0 | 7.0 | 7.0 | Johannesburg | Widen 2 lanes to 4 lane Expressway | \$8,750 |  |
| 395 | Kern | 9 | 7.0 | 11.2 | 4.2 | 9 miles north of Johannesburg | Widen 2 lanes to 4 lane Expressway | \$5,250 |  |
| 395 | Kern | 9 | 11.2 | R15.2 | 4.0 | 15 miles north of Johannesburg | Widen 2 lanes to 4 lane Expressway | \$5,000 |  |
| 395 | Kern | 9 | R15.2 | R23.0 | 7.8 | 5 miles south of Inyokern | Widen 2 lanes to 4 lane Expressway | \$9,750 |  |
| 395 | Kern | 9 | R23.0 | 29.4 | 6.4 | Inyokern | Widen 2 lanes to 4 lane Expressway | \$8,060 |  |
| 395 | Inyo | 9 | 30.8 | 36.4 | 5.6 | 3 miles south of Olancha | Widen 2 lanes to 4 lane Expressway | \$7,110 |  |
| 395 | Inyo | 9 | 36.4 | 41.3 | 4.9 | 5 miles north of Olancha | Widen 2 lanes to 4 lane Expressway | \$6,325 |  |
| 395 | Inyo | 9 | 41.3 | 45.3 | 4.0 | 14 miles south of Lone Pine | Widen 2 lanes to 4 lane Expressway | \$5,100 |  |
| 395 | Inyo | 9 | 66.3 | 73.2 | 6.9 | 5 miles south of Independence | Widen 2 lanes to 4 lane Expressway | \$6,916 |  |
| 395 | Inyo | 9 | 73.4 | 75.6 | 2.2 | 1 mile north of Independence | Widen 2 lanes to 4 lane Expressway | \$2,755 |  |
| 395 | Inyo | 9 | 77.3 | 84.3 | 7.0 | 8 miles north of Independence | Widen 2 lanes to 4 lane Expressway | \$8,750 |  |
| 395 | Inyo | 9 | 84.3 | 91.6 | 7.3 | 14 miles north of Independence | Widen 2 lanes to 4 lane Expressway | \$9,125 |  |
| 395 | Inyo | 9 | 92.3 | 99.3 | 7.0 | 5 miles south of Big Pine | Widen 2 lanes to 4 lane Expressway | \$9,010 |  |
| 395 | Mono | 9 | 45.0 | 51.3 | 6.3 | Route 120E to Route 120W | Widen 2 lanes to 4 lane Expressway | \$6,772 |  |
| 395 | Mono | 9 | 52.9 | 56.5 | 3.6 | 5 miles north of Lee Vining | Widen to 40 feet | \$2,920 |  |
| 395 | Mono | 9 | 66.1 | 68.1 | 2.0 | 10 miles south of Bridgeport | Add passing lanes (NB \& SB) | \$4,110 |  |
| 395 | Mono | 9 | 69.8 | 71.9 | 2.1 | 5 miles south of Bridgeport | Widen 2 lanes to 4 lanes | \$4,100 |  |
| 395 | Mono | 9 | 73.2 | 74.7 | 1.5 | 2 miles south of Bridgeport | Add passing lanes (NB \& SB) | \$2,290 |  |
| 395 | Mono | 9 | 74.7 | 76.4 | 1.7 | Bridgeport | Continuous left turn lane | \$3,900 |  |
| 395 | Mono | 9 | 76.8 | 84.6 | 7.8 | 4 miles north of Bridgeport | Widen 2 lanes to 4 lanes | \$12,200 |  |
| 395 | Mono | 9 | 84.6 | 86.9 | 2.3 | 10 miles north of Bridgeport | Add passing lanes (NB \& SB) | \$2,080 |  |
| 395 | Mono | 9 | 88.4 | 90.7 | 2.3 | 15 miles north of Bridgeport | Add truck climbing lane (SB) | \$3,450 |  |
| 395 | Mono | 9 | 93.7 | 94.8 | 1.1 | 18 miles north of Bridgeport | Add passing lanes (NB \& SB) | \$1,700 |  |
| 395 | Mono | 9 | 116.5 | 117.5 | 1.0 | 4 miles south of Nevada State Line | Add passing lanes ( NB \& SB) | \$1,550 |  |
| 395 | Mono | 9 | 117.0 | 120.5 | 3.5 | 2 miles south of Nevada State Line | Widen 2 lanes to 4 lanes | \$7,600 |  |
| 395 | Lassen | 2 | 5.8 | R15.9 | 10.1 | Reno Route (Red Rock) | Widen 2 lanes to 4 lane Expressway | \$22,000 |  |
| 395 | Lassen | 2 | R24.4 | 31.2 | 6.8 | Reno Route (South Herlong) | Widen 2 lanes to 4 lane Expressway | \$22,000 |  |
| 395 | Lassen | 2 | 40.0 | 43.7 | 3.7 | Reno Route (Milford) | Widen 2 lanes to 4 lane Expressway | \$8,000 |  |
| 395 | Lassen | 2 | 43.7 | 48.5 | 4.8 | Reno Route (Honey Lake) | Widen 2 lane Expressway to 4 lanes | \$9,000 |  |
| 395 | Lassen | 2 | 48.5 | 56.7 | 8.2 | Reno Route (Janesville) | Widen 2 lanes to 4 lane Expressway | \$16,000 |  |
| 395 | Lassen | 2 | 56.7 | 61.1 | 4.4 | Reno Route (Bass Hill) | Widen 2 lane Expressway to 4 lanes | \$8.000 |  |
| 395 | Route Totals |  |  |  | 217.0 |  |  | \$318.473 | \$0 |

APPENDIX "D":
IRRS PROJECT RECOMMENDATIONS BY ROUTE (COnt'd)

| State Route | County | Caltrans District | Beginning Post Mile | Ending Post Mile | $\begin{aligned} & \text { Project } \\ & \text { Lengith } \end{aligned}$ | $\begin{aligned} & \text { PRDJECT DESCRIPTION } \\ & \text { LocationName } \end{aligned}$ | Improvement | $1989 *$ <br> State Cost | $\begin{aligned} & \text { 1989* } \\ & \text { Local Cost } \end{aligned}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 580 | Alameda | 4 | 0.4 | 8.9 | 8.5 | Altamont Pass (Stage 1) | Add truck climbing lanes on seperate roadway (WB) | \$30,170 |  |
| 580 | Alameda | 4 | 0.4 | 8.9 | 8.5 | Altamont Pass (Stage 2) | Add truck climbing lanes on seperate roadway (WB) | \$39,830 |  |
| 580 | Route Totals |  |  |  | 8.5 |  |  | \$70,000 | \$0 |
| 905 | San Diego | 11 | 8.8 | 12.0 | 3.2 | Urban Limit to Mexican Border (Stage 1) | Construct 4 lane Expressway on new alignment | \$15,000 |  |
| 905 | San Diego | 11 | 8.8 | 12.0 | 3.2 | Urban Limit to Mexican Border (Stage 2) | Construct 4 lane Expressway on new alignment | \$20,000 |  |
| 905 | San Diego | 11 | 8.8 | 12.0 | 3.2 | Urban Limit to Mexican Border (Stage 3) | Convert 4 lane Expressway to 4 lane Freeway | \$11,000 |  |
| 905 | Route Totals |  |  |  | 9.6 |  |  | \$46,000 | \$0 |
| Statewide Totals |  |  |  |  |  |  |  | \$3,013.569 | \$230,225 |
| High Emphasis Route |  |  |  |  |  |  |  |  |  |
| * $\ln$ \$ | 1000's |  |  |  |  |  |  |  |  |

## APPENDIX "E":

IRRS PROJECT RECOMMENDATIONS BY COUNTY

| County | State Route | Beginning Post Mile | Ending <br> Post Mile | Project Length | PROJECT DESCRIPTION LocationName | Improvement | Calitrans District | $\begin{aligned} & \text { 1989* } \\ & \text { State Cost } \\ & \hline \end{aligned}$ | $\begin{aligned} & 1989 * \\ & \text { Local Cost } \end{aligned}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Alameda | 580 | 0.4 | 8.9 | 8.5 | Altamont Pass (Stage 1) | Add truck climbing lanes on seperate roadway (WB) | 4 | \$30,170 |  |
| Alameda | 580 | 0.4 | 8.9 | 8.5 | Altamont Pass (Stage 2) | Add truck climbing lanes on seperate roadway (WB) | 4 | \$39,830 |  |
| Alameda County Totals |  |  |  | 8.5 |  |  |  | \$70,000 | \$0 |
| Amador | 49 | 3.1 | 3.9 | 0.8 | Jackson | Widen to 4 lanes plus left turn lano | 10 | \$700 |  |
| Amador | 49 | 6.5 | R13.7 | 7.2 | Sutter Creek/Amador City Bypass | Construct 2 lane Expressway on new alignment | 10 | \$27,700 |  |
| Amador | 88 | 27.1 | 43.6 | 16.5 | Cooks Station | Widen, add passing lanes and left turn lane | 10 | \$7,920 |  |
| Amador County Totals |  |  |  | 24.5 |  |  |  | \$36,320 | \$0 |
| Butte | 99 | 21.7 | 21.9 | 0.2 | Junction 99/149 | Construct interchange | 3 | \$7,000 |  |
| Butte | 99 | 41.2 | 44.3 | 3.1 | 10 miles north of Chico | Add passing lane | 3 | \$1,500 |  |
| ButteCounty Totals |  |  |  | 3.3 |  |  |  | \$8,500 | $\$ 0$ |
| Butte/Sutter | 99/70 |  |  |  | Sacramento to Chico | To be determined (Pending 99/70 Study) | 3 | \$35,000 |  |
| Butte/Sutter/Kuba | 99/70 |  |  | 66.0 | Sacramento to Chlco | To be determined (Pending 99/70 Study) | 3 | \$40,000 |  |
| Butte/Sutter/Yuba County Totals |  |  |  | 66.0 |  |  |  | \$75,000 | \$0 |
| Calaveras | 4 | R13.7 | R16.4 | 2.7 | 5 miles west of Altaville | Construct 2 lane Expressway on new alignment | 10 | \$9,931 |  |
| Calaveras | 4 | R10.3 | R13.7 | 3.4 | 10 miles west of Altaville | Construct 2 lane Expressway on new alignment | 10 | \$8,080 |  |
| Calaveras | 4 | R21.1 | R23.4 | 2.3 | Angels Bypass | Construct 2 lane Expressway on new alignment | 10 | \$8,300 |  |
| Calaveras | 49 | 2.2 | 3.9 | 1.7 | 5 miles south of Angels Camp | Widen \& realign | 10 | \$4,120 |  |
| Calaveras County Totals |  |  |  | 10.1 |  |  |  | \$30.431 | \$0 |
| Colusa | 20 | 3.4 | 13.0 | 9.6 | Route 16 to Walnut Dr | Add passing lane | 3 | \$2,000 |  |
| Colusa County Totals |  |  |  | 9.6 |  |  |  |  | \$0 |
| Del Norte | 101 | 12.5 | 16.3 | 3.8 | Wilson Creek Bypass | Construct 4 lane Expressway on new alignment | 1 | \$41,000 |  |
| Del Norte | 101 | 23.5 | 25.8 | 2.3 | Crescent City Flat | Widen 2 lanes to 4 lane Expressway | 1 | \$5,700 |  |
| Del Norte | 199 | 9.3 | 10.1 | 0.8 | Hardscrabble Creek | Add passing lanes | 1 | 480 |  |
| Del Norte County Totals |  |  |  | 6.9 |  |  |  | \$47,180 | \$0 |
| El Dorado | 50 | R2.0 | R3.2 | 1.2 | Bass Lake Grade | Add truck climbing lane (EB) | 3 | \$1,000 |  |
| El Dorado | 50 | 17.3 | 18.1 | 0.8 | Placerville Freeway | Convert 4 lane Expressway to 4 lane Freeway | 3 | \$50,000 |  |
| El Dorado | 50 | 20.8 | R25.8 | 5.0 | Camino | Construct Freeway plus interchange | 3 | \$17,000 |  |
| El Dorado | 50 | 54.7 | 56.0 | 1.3 | 3 miles west of Strawberry | Extend passing lanes (WB \& EB) | 3 | \$3,000 |  |
| El Dorado County To | Totals |  |  | 8.3 |  |  |  | \$71,000 | 80 |

## APPENDIX "E":

IRRS PROJECT RECOMMENDATIONS BY COUNTY (cont'd)

| County | State Roule | Beginning Post Mile | Ending <br> Post Mile | Project Lenglh | PROJECT DESCRIPTION Location/Name | Improvement | Caltrans District | $\begin{aligned} & 1989^{*} \\ & \text { State Cost } \end{aligned}$ | $\begin{aligned} & \text { 1989 } \\ & \text { Local Cost } \end{aligned}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Fresno | 41 | R0.0 | R6.1 | 6.1 | 20 miles south of Presno | Widen 2 lane Expressway to 4 lanes | 6 | \$7,200 |  |
| Fresno | 41 | R6.1 | R20.1 | 14.0 | 10 miles south of Fresno | Construct 4 lane Expressway on new alignment | 6 | \$20,025 | \$20,025 |
| Fresno | 41 | R32.6 | R33.5 | 0.9 | North of Fresno | Construct 4 lane Freeway on new alignment | 6 | \$4,500 | \$4,500 |
| Fresno | 99 | 0.0 | 6.4 | 6.4 | Kingsburg to Selma | Widen 4 lane Freeway to 6 lanes | 6 | \$12,750 |  |
| Fresno | 99 | 6.4 | 9.0 | 2.6 | Selma to Fowler | Widen 6 lane Freeway to 8 lanes | 6 | \$3,200 |  |
| Fresno | 99 | 9.0 | 12.3 | 3.3 | Fowler | Widen 6 lane Freeway to 8 lanes | 6 | \$4,990 |  |
| Fresno | 168 | 8.5 | T22.9 | 14.4 | 9 miles east of Clovis | 4 lane Expressway to Shepherd; 2 lane Expressway to end | 6 | \$10,750 | \$10,750 |
| Fresno | 168 | T22.9 | R27.4 | 4.5 | 16 miles east of Clovis | Construct 2 lane Expressway plus passing lane | 6 | \$6.750 | \$6,750 |
| Fresno | 180 | 67.6 | 71.6 | 4.0 | 8 miles east of Fresno | Construct 4 lane Expressway on new alignment | 6 | \$5,400 | \$5,400 |
| Fresno | 180 | 71.6 | 75.0 | 3.4 | 15 miles east of Fresno | Construct 4 lane Expressway on new alignment | 6 | \$5,700 | \$5,700 |
| Fresno | 180 | 75.0 | 78.2 | 3.2 | 20 miles east of Fresno | Construct 4 lane Expressway on new alignment | 6 | \$6,100 | \$6,100 |
| Fresno County Totals |  |  |  | 62.8 |  |  |  | \$87.365 | \$59,225 |
| Humboldt | 101 | 57.0 | 58.8 | 1.8 | Alton at Junction 101/36 | Construct interchange | 1 | \$4,700 |  |
| Humboldt | 101 | 109.5 A | R112.9 | 3.4 | Big Lagoon Expressway | Construct 4 lane Expressway on new alignment | 1 | \$23,800 |  |
| Humboldt | 101 | 115.3 | 118.0 | 2.7 | Stone Lagoon to Freshwater Lagoon | Construct 4 lane Expressway on new alignment | 1 | \$15,000 |  |
| Humboldt | 101 | 118.0 | 119.3 | 1.3 | Freshwater Lagoon Expressway | Widen to 4 lane Expressway | 1 | \$1,300 |  |
| Humboldt | 101 | T114.0 | 115.3 | 1.3 | Dry Lagoon to Stone Lagoon | Construct 4 lane Expressway on new alignment | 1 | \$3,000 |  |
| Humboldt | 299 | 41.1 | 42.5 | 1.4 | Humboldt/Trinity County Line | Add passing lanes | 1 | \$860 |  |
| Humboldt County Totals |  |  |  | 11.9 |  |  |  | \$48,660 | \$0 |
| Imperial | 86 | 21.2 | 23.9 | 2.7 | North of Brawley | Widen 2 lanes to 4 lane Expressway | 11 | \$8,200 |  |
| Imperial | 111 | 8.3 | 13.1 | 4.8 | Route 8 to Worthington | Widen 2 lanes to 4 lane Expressway | 11 | \$24,800 |  |
| Imperial | 111 | 13.1 | 17.6 | 4.5 | Worthington to Keystone | Widen 2 lanes to 4 lane Expressway | 11 | \$17.300 |  |
| Imperial | 111 | 17.6 | 22.0 | 4.4 | Keystone to Route 78 | Widen 2 lanes to 4 lane Expressway | 11 | \$19,000 |  |
| Imperial County Totals |  |  |  | 16.4 |  |  |  | \$69.300 | \$0 |
| Inyo | 395 | 30.8 | 36.4 | 5.6 | 3 miles south of Olancha | Widen 2 lanes to 4 lane Expressway | 9 | \$7,110 |  |
| Inyo | 395 | 36.4 | 41.3 | 4.9 | 5 miles north of Olancha | Widen 2 lanes to 4 lane Expressway | 9 | \$6,325 |  |
| Inyo | 395 | 41.3 | 45.3 | 4.0 | 14 miles south of Lone Pine | Widen 2 lanes to 4 lane Expressway | 9 | \$5.100 |  |
| Inyo | 395 | 66.3 | 73.2 | 6.9 | 5 miles south of Independence | Widen 2 lanes to 4 lane Expressway | 9 | \$6,916 |  |
| Inyo | 395 | 73.4 | 75.6 | 2.2 | 1 mile north of Independence | Widen 2 lanes to 4 lane Expressway | 9 | \$2,755 |  |
| Inyo | 395 | 77.3 | 84.3 | 7.0 | 8 miles north of Independence | Widen 2 lanes to 4 lane Expressway | 9 | \$8,750 |  |
| Inyo | 395 | 84.3 | 91.6 | 7.3 | 14 miles north of Independence | Widen 2 lanes to 4 lane Expressway | 9 | \$9,125 |  |

APPENDIX "E":
IRRS PROJECT RECOMMENDATIONS BY COUNTY (cont'd)

| County | State Route | Beginning Post Mile | Ending Post Mile | Project Length | PROJECT DESCRIPTION Location/Name | Improvement | Caltrans District | 1989* State Cost | 1989* <br> Local Cost |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Inyo | 395 | 92.3 | 99.3 | 7.0 | 5 miles south of Big Pine | Widen 2 lanes to 4 lane Expressway | 9 | \$9,010 |  |
| Inyo County Totals |  |  |  | 44.9 |  |  |  | \$55,091 | \$0 |
| Kern | 5 | 4.5 | 15.0 | 10.5 | Lebec to Wheeler Ridge | Widen 8 lane Freeway to 10 lanes | 6 | \$17.130 |  |
| Kern | 14 | 16.4 | 25.7 | 9.3 | 5 miles north of Mojave | Widen 2 lanes to 4 lane Expressway | 9 | \$7,983 |  |
| Kern | 14 | 20.1 | 20.5 | 0.4 | 4 miles north of Mojave | Construct California City Blvd interchange | 9 | \$5,000 |  |
| Kern | 14 | 42.2 | 46.2 | 4.0 | 28 miles north of Mojave | Widen 2 lanes to 4 lane Expressway | 9 | \$5,997 |  |
| Kern | 14 | 46.0 | 51.8 | 5.8 | 8 miles south of Freeman Junction | Widen 2 lanes to 4 lane Expressway | 9 | \$7,360 |  |
| Kern | 14 | 51.8 | 57.0 | 5.2 | 3 miles south of Freeman Junction | Widen 2 lanes to 4 lane Expressway | 9 | \$6,600 |  |
| Kern | 14 | 57.0 | 62.1 | 5.1 | 5 miles north of Freeman Junction | Widen 2 lanes to 4 lane Expressway | 9 | \$6,646 |  |
| Kern | 46 | 7.3 | 20.5 | 13.2 | Kecks Corner to Route 33 | Widen to 40 feet | 6 | \$6.100 |  |
| Kern | 46 | 20.5 | 32.5 | 12.0 | Route 33 to Route 5 | Widen to 40 feet | 6 | \$8.770 |  |
| Kern | 58 | 35.4 | R46.1 | 10.7 | 10 miles west of Bakersfield | Construct 4 lane Expressway on new alignment | 6 | \$18,500 |  |
| Kern | 58 | 80.3 | 89.5 | 9.2 | 5 miles west of Tehachapi | Add truck climbing lane (EB) | 9 | \$8,900 |  |
| Kern | 58 | R101.6 | 111.6 | 10.0 | 6 miles west of Mojave | Construct interchange \& upgrade to Freeway | 9 | \$6,710 |  |
| Kern | 58 | R108.7 | 117.0 | 8.3 | Mojave Bypass | Construct 4 lane Freeway on new alignment | 9 | \$30,185 |  |
| Kern | 99 | R29.9 | 36.5 | 6.6 | 10 miles north of Bakersfield | Widen 6 lane Freeway to 8 lanes | 6 | \$10,800 |  |
| Kern | 99 | 36.5 | 44.7 | 8.2 | 20 miles north of Bakersfield | Widen 6 lane Freeway to 8 lanes | 6 | \$10,800 |  |
| Kern | 99 | 49.4 | 57.6 | 8.2 | McFarland to Delano | Widen 4 lane Freeway to 6 lanes | 6 | \$20,580 |  |
| Kern | 395 | 0.0 | 7.0 | 7.0 | Johannesburg | Widen 2 lanes to 4 lane Expressway | 9 | \$8,750 |  |
| Kern | 395 | 7.0 | 11.2 | 4.2 | 9 miles north of Johannesburg | Widen 2 lanes to 4 lane Expressway | 9 | \$5,250 |  |
| Kern | 395 | 11.2 | R15.2 | 4.0 | 15 miles north of Johannesburg | Widen 2 lanes to 4 lane Expressway | 9 | \$5,000 |  |
| Kern | 395 | R15.2 | R23.0 | 7.8 | 5 miles south of Inyokern | Widen 2 lanes to 4 lane Expressway | 9 | \$9,750 |  |
| Kern | 395 | R23.0 | 29.4 | 6.4 | Inyokern | Widen 2 lanes to 4 lane Expressway | 9 | \$8,060 |  |
| Kern County Totals |  |  |  | 156.1 |  |  |  | \$214.871 | \$0 |
| Kings | 41 | 4.4 | 5.4 | 1.0 | 13 miles south of Keltleman City | Add passing lanes | 6 | \$1.150 |  |
| Kings | 41 | 12.2 | 13.2 | 1.0 | 5 miles south of Kettleman City | Add passing lane (NB) | 6 | \$1,040 |  |
| Kings | 41 | 13.5 | 15.4 | 1.9 | 4 miles south of Kottleman City | Add passing lane (SB) | 6 | \$1,500 |  |
| Kings | 41 | 0.9 | 1.9 | 1.0 | 17 miles south of Kettleman City | Add passing lanes | 6 | \$570 |  |
| Kings | 41 | 7.0 | 8.0 | 1.0 | 10 miles south of Kettleman City | Add passing lanes (SB) | 6 | \$580 |  |
| Kings | 41 | 39.4 | R42.0 | 2.6 | Near Lemoore | Widen 2 lanes to 4 lane Expressway | 6 | \$9,070 |  |
| Kings | 198 | T21.5 | 28.3 | 6.8 | Hanford to Visalia | Widen 2 lanes to 4 lane Expressway | 6 | \$9,730 |  |
| Kings County Totals |  |  |  | 15.3 |  |  |  | \$23,640 | \$0 |

## APPENDIX "E":

IRRS PROJECT RECOMMENDATIONS BY COUNTY (cont'd)


## APPENDIX "E":

IRRS PROJECT RECOMMENDATIONS BY COUNTY (cont'd)


## APPENDIX "E":

IRRS PROJECT RECOMMENDATIONS BY COUNTY (cont'd)

| County | Stata Route | Beginning Post Mile | Ending Post Mile | Project Length | PROJECT DESCRIPTION LocationName | Improvement | Calirans District | 1989* <br> State Cost | $1989^{*}$ <br> Local Cost |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Mono | 395 | 88.4 | 90.7 | 2.3 | 15 miles north of Bridgeport | Add truck climbing lane (SB) | 9 | \$3,450 |  |
| Mono | 395 | 93.7 | 94.8 | 1.1 | 18 miles north of Bridgeport | Add passing lanes (NB \& SB) | 9 | \$1,700 |  |
| Mono | 395 | 116.5 | 117.5 | 1.0 | 4 miles south of Nevada State Line | Add passing lanes (NB \& SB) | 9 | \$1,550 |  |
| Mono | 395 | 117.0 | 120.5 | 3.5 | 2 miles south of Nevada State Line | Widen 2 lanes to 4 lanes | 9 | \$7,600 |  |
| Mono County Totals |  |  |  | 35.2 |  |  | \$52,672 |  | \$0 |
| Monterey | 1 | 91.4 | 95.2 | 3.8 | Castroville to Watsonville | Widen 2 lanes to 4 lane Expressway | 5 | \$8,000 |  |
| Monterey | 1 | 95.2 | 98.4 | 3.2 | Castroville to Watsonville | Widen 2 lanes to 4 lane Expressway | 5 | \$15,000 |  |
| Monterey | 1 | 98.4 | 100.5 | 2.1 | Castroville to Watsonville | Widen 2 lanes to 4 lane Expressway | 5 | \$7,000 |  |
| Monterey | 1 | 100.5 | 101.5 | 1.0 | Castroville to Watsonville | Construct 4 lane Freeway plus interchange | 5 | \$0 | \$14.000 |
| Monterey | 68 | 12.6 | 15.0 | 2.4 | 5 miles west of Salinas | Construct 4 lane Freeway on new alignment | 5 | \$0 | \$33.550 |
| Monterey | 101 | R91.5 | 98.7 | 7.2 | Prunedale Bypass | Construct 4 lane Freeway on new alignment | 5 | \$70,000 | \$70.000 |
| Monterey | 101 | 98.7 | 101.3 | 2.6 | Prunedale Bypass Extension | Widen 4 lane Freeway to 6 lanes | 5 | \$14,000 |  |
| Monterey | 156 | R1.3 | T5.2 | 3.9 | Castroville to Prunedale | Construct 4 lane Freeway | 5 | \$25,000 |  |
| Monterey County Totals |  |  |  | 26.2 |  |  | \$139,000 |  | \$117.550 |
| Napa | 12 | 0.0 | 3.3 | 3.3 | Route 29 to Route 80 (Napa) | Widen 2 lanes to 4 lanes | 4 | \$15,000 |  |
| Napa County Totals |  |  |  | 3.3 |  |  |  | \$15,000 | \$0 |
| Nevada | 49 | 0.0 | 2.0 | 2.0 | Auburn to Grass Valley | Construct 4 lane Expressway | 3 | \$10,000 |  |
| Nevada | 49 | 2.0 | 7.3 | 5.3 | Auburn to Grass Valley | Construct 4 lane Expressway | 3 | \$11,000 | \$11.000 |
| Nevada | 49 | 7.2 | 13.3 | 6.1 | Auburn to Grass Valley | Right of Way only for 4 lane Expressway | 3 | \$15,000 |  |
| Nevada | 49 | 8.8 | 10.1 | 1.3 | Auburn to Grass Valley | Add signals \& passing lanes (NB) | 3 | \$1,500 |  |
| Nevada | 267 | 0.0 | R2.8 | 2.8 | Truckee Bypass | Construct 4 lane Expressway on new alignment | 3 | \$20,000 | \$6,000 |
| Nevada County Totals |  |  |  | 17.5 |  |  |  | \$57,500 | \$17.000 |
| Orange | 1 | 11.5 | 12.4 | 0.9 | North of Laguna Beach | Widen 4 lanes to 6 lanes | 12 | \$2,076 |  |
| Orange | 74 | 1.5 | 2.8 | 1.3 | 2 miles east of San Juan Capistrano | Widen 2 lanes to 4 lanes plus replace bridge | 12 | \$3,924 |  |
| Orange County Totals |  |  |  | 2.2 |  |  |  | \$6,000 | \$0 |
| Placer | 49 | 11.2 | 11.4 | 0.2 | Auburn to Grass Valley | Construct 4 lane Expressway | 3 | \$1.000 |  |
| Placer | 267 | 4.0 | 6.5 | 2.5 | North Star | Add passing lanes (SB) | 3 | \$1,500 |  |
| Placer County Totals |  |  |  | 2.7 |  |  |  | \$2.500 | \$0 |
| Plumas | 70 | 33.1 | 36.6 | 3.5 | Keddie (West) | Widen to 32 feet \& add truck climbing lane (EB) | 2 | \$3,705 |  |
| Plumas | 70 | 40.0 | 41.5 | 1.5 | Snake Lake | Add passing lanes (EB \& WB) | 2 | \$1,910 |  |
| Plumas | 70 | 46.2 | 47.0 | 0.8 | La Porte Rd | Add passing lane (EB) | 2 | \$692 |  |

## APPENDIX "E":

IRRS PROJECT RECOMMENDATIONS BY COUNTY (cont'd)

| County | State Route | Beginning Post Mile | Ending Post Mile | Project Length | PROJECT OESCRIPTION Location/Name | Improvement | Caltrans District | 1989* <br> State Cost | $\begin{aligned} & \text { 1989* } \\ & \text { Local Cost } \end{aligned}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Plumas | 70 | 48.1 | 48.8 | 0.7 | Chandler Rd | Add passing lane (EB) | 2 | \$595 |  |
| Plumas | 70 | 51.3 | 52.0 | 0.7 | West Slope Lee Summit | Add passing lane (EB) | 2 | \$552 |  |
| Plumas | 70 | 52.3 | 53.2 | 0.9 | West Slope Lee Summit | Add passing lane (EB) | 2 | \$626 |  |
| Plumas County Totals |  |  |  | 8.1 |  |  |  | \$8.080 | \$0 |
| Riverside | 15 | 35.6 | 37.6 | 2.0 | Corona | Widen 6 lane Freeway to 8 lanes | 8 | \$6,600 |  |
| Riverside | 74 | 0.0 | 11.8 | 11.8 | Ortega Highway | Widen 2 lanes to 4 lanes | 8 | \$16,500 |  |
| Riverside | 74 | 11.8 | R14.2 | 2.4 | Lake Elsinore | Widen 2 lanes to 4 lanes | 8 | \$2,700 |  |
| Riverside | 74 | 17.3 | 25.7 | 8.4 | Lake Elsinore to Perris | Widen 2 lanes to 4 lanes | 8 | \$11,000 | \$11,000 |
| Riverside | 74 | 25.7 | 27.5 | 1.8 | Perris | Widen 2 lanes to 4 lanes | 8 | \$3,400 | \$3,400 |
| Riverside | 74 | 34.3 | 37.4 | 3.1 | 5 miles west of Hemet | Widen 4 lanes to 6 lanes | 8 | \$3,300 |  |
| Riverside | 86 | R2.4 | R10.7 | 8.3 | 15 miles south of Coachella (Stage 2) | Construct 4 lane Expressway on new alignment | 11 | \$15,800 |  |
| Riverside | 86 | R10.7 | R12.8 | 2.1 | 10 miles south of Indio | Upgrade 4 lane Expressway to 4 lane Freeway | 11 | \$4,500 |  |
| Riverside | 86 | R12.8 | R22.5 | 9.7 | 10 miles south to Indio | Upgrade 4 lane Expressway to 4 lane Freeway | 11 | \$6,000 |  |
| Riverside | 215 | R9.0 | 18.5 | 9.5 | Rancho California | Widen 4 lane Freeway to 6 lanes | 8 | \$28,600 |  |
| Riverside | 215 | 18.5 | 23.2 | 4.7 | Sun City | Widen 4 lane Freeway to 6 lanes | 8 | \$15,500 |  |
| Riverside | 215 | 23.2 | 27.6 | 4.4 | South of Perris | Widen 4 lane Freeway to 6 lanes | 8 | \$14.500 |  |
| Riverside County Totals |  |  |  | 68.2 |  |  |  | \$128,400 | \$14.400 |
| Sacramento | 5 | 27.2 | 33.5 | 6.3 | Sacramento to Metro Airport | Widen 4 lane Freeway to 6 lanes | 3 | \$12,000 |  |
| Sacramento | 16 | 4.0 | 12.0 | 8.0 | South of Mather AFB | Widen 2 lanes to 4 lanes plus left turn lane | 3 | \$10,000 | \$1,000 |
| Sacramento County Totals |  |  |  | 14.3 |  |  |  | \$22,000 | \$1,000 |
| San Benito | 101 | 0.0 | 3.1 | 3.1 | South of Route 156 | Upgrade to 6 lanes | 5 | \$22,000 |  |
| San Benito | 101 | 3.1 | 7.6 | 4.5 | North of Route 156 | Upgrade to 6 lanes | 5 | \$16,000 |  |
| San Benito | 156 | 3.3 | 7.3 | 4.0 | San Juan Bautista | Widen 2 lanes to 4 lane Expressway | 5 | \$11,000 |  |
| San Benito County Totals |  |  |  | 11.6 |  |  |  | \$49.000 | \$0 |
| San Bernardino | 15 | 43.1 | 53.3 | 10.2 | North of Victorville | Widen 4 lane Freeway to 6 lanes | 8 | \$36,800 |  |
| San Bernardino | 15 | 70.0 | 74.4 | 4.4 | Barstow | Widen 4 lane Freeway to 6 lanes | 8 | \$14,500 |  |
| San Bernardino | 18 | 31.7 | 34.5 | 2.8 | Running Springs | Widen 2 lanes to 4 lanes | 8 | \$3,900 |  |
| San Bernardino | 18 | 46.6 | 49.1 | 2.5 | Big Bear | Widen 2 lanes to 4 lanes | 8 | \$10,200 |  |
| San Bernardino | 18 | 51.6 | 53.9 | 2.3 | Big Bear City (W) | Widen 2 lanes to 4 lanes | 8 | \$5,500 |  |
| San Bernardino | 18 | 94.4 | 96.6 | 2.2 | Victorville | Widen 4 lanes to 6 lanes | 8 | \$2,400 |  |
| San Bernardino | 38 | 45.7 | 49.5 | 3.8 | Big Bear City (E) | Widen 2 lanes to 4 lanes | 8 | \$2,500 |  |
| San Bernardino | 58 | 0.0 | 5.4 | 5.4 | Kern County to Route 395 | Widen 2 lanes to 4 lane Expressway | 8 | \$13,500 |  |

## APPENDIX "E":

IRRS PROJECT RECOMMENDATIONS BY COUNTY (cont'd)


APPENDIX "E":
IRRS PROJECT RECOMMENDATIONS BY COUNTY (cont'd)

| County | State Route | Beginning Post Mile | Ending Post Mile | Project Length | PROJECT DESCRIPTION Location/Name | Improvement | Caltran District | $\begin{aligned} & \hline 1989^{*} \\ & \text { State Cost } \\ & \hline \end{aligned}$ | 1989* <br> Local Cost |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Santa Clara | 101 | 0.1 | 4.6 | 4.5 | 5 miles south of Gilroy | Convert 4 lane Expressway to 4 lane Freeway | 4 | \$13,500 |  |
| Santa Clara | 101 | 6.0 | 6.1 | 0.1 | Gilroy at South Junction 101/152 | Add collector road \& loop ramp | 4 | \$560 |  |
| Santa Clara | 152 | 9.9 | 10.0 | 0.1 | Gilroy at North Junction 101/152 | Construct ultimate interchange | 4 | \$8,000 |  |
| Santa Clara | 152 | 11.1 | 22.1 | 11.0 | Route 101 to Route 156 (Stage 1) | Construct 4 lane Expressway on new alignment | 4 | \$36,000 |  |
| Santa Clara | 152 | 11.1 | 22.1 | 11.0 | Route 101 to Route 156 (Stage 2) | Construct 4 lane Expressway on new alignment | 4 | \$40,000 |  |
| Santa Clara | 152 | 14.9 | 16.3 | 1.4 | 7 miles west of Route 156 | Add passing lane | 4 | \$2,800 |  |
| Santa Clara | 152 | 19.9 | 21.1 | 1.2 | 2 miles west of Route 156 | Add passing lanes (EB) | 4 | \$2,800 |  |
| Santa Clara County Totals |  |  |  | 18.3 |  |  |  | \$103.660 | \$0 |
| Santa Cruz | 17 | 10.8 | 11.9 | 1.1 | 11 miles north of Santa Cruz | Add truck climbing lane (NB) | 4 | \$3,500 |  |
| Santa Cruz County Totals |  |  |  | 1.1 |  |  |  | \$3,500 | \$0 |
| Shasta | 5 | 0.0 | 3.7 | 3.7 | Cottonwood Hills | Add lane plus widen bridges to 40 feet | 2 | \$8,570 |  |
| Shasta | 5 | 22.1 | 26.0 | 3.9 | Fawndale | Widen 4 lane Freeway to 6 lanes | 2 | \$700 |  |
| Shasta | 5 | 28.1 | R42.3 | 14.2 | Shasta Lake | Add lane | 2 | \$5,000 |  |
| Shasta | 44 | R3.8 | R7.7 | 3.9 | Palo Cedro Fwy | Add lane (EB), modify interchange | 2 | \$13,500 |  |
| Shasta | 44 | R11.4 | R12.4 | 1.0 | The Dips | Construct 4 lane Expressway on new alignment | 2 | \$3,125 |  |
| Shasta | 44 | R14.8 | R15.9 | 1.1 | Bear Creek | Add passing lanes (EB \& WB) | 2 | \$920 |  |
| Shasta | 44 | R21.4 | 32.1 | 10.7 | Shingletown | Add passing lanes | 2 | \$4,000 |  |
| Shasta | 44 | R25.3 | R26.1 | 0.8 | Shasta Forest | Add passing lanes (EB) \& improve curve | 2 | \$576 |  |
| Shasta | 44 | 36.4 | 37.2 | 0.8 | Starlight Pines | Add passing lanes (EB) | 2 | \$400 |  |
| Shasta | 44 | 52.7 | 53.3 | 0.6 | Eskimo Hill | Add passing lanes (WB) | 2 | \$360 |  |
| Shasta | 44 | 65.2 | 66.2 | 1.0 | Hat Creek Rim | Add passing lanes (EB) | 2 | \$457 |  |
| Shasta | 299 | 0.0 | 8.5 | 8.5 | Buckhorn | Realign \& widen 2 lanes to 4 lane Expressway | 2 | \$52,700 |  |
| Shasta | 299 | 16.4 | 17.5 | 1.1 | Shasta Divide | Add truck climbing lane (WB) | 2 | \$760 |  |
| Shasta | 299 | 17.7 | 19.0 | 1.3 | Old Shasta | Construct 4 lane Expressway on new alignment | 2 | \$3,750 |  |
| Shasta County Totals |  |  |  | 52.6 |  |  |  | \$94,818 | \$0 |
| Siskiyou | 5 | R51.2 | R58.2 | 7.0 | Anderson Grade | Add truck climbing lanes | 2 | \$5,000 |  |
| Siskiyou | 97 | L0.4 | 4.4 | 4.0 | Weed | Add 2 lanes for 4 lane Expressway | 2 | \$6,131 |  |
| Siskiyou | 97 | 27.6 | 28.6 | 1.0 | Tennant Bray | Add passing lane (NB) | 2 | \$501 |  |
| Siskiyou | 97 | 33.0 | 34.4 | 1.4 | North Slope Mt. Hebron | Add passing lane (SB) | 2 | \$701 |  |
| Siskiyou | 97 | 49.3 | 51.8 | 2.5 | Dorris | Construct 4 lane Expressway on new alignment | 2 | \$10,100 |  |
| Siskiyou County Totals |  |  |  | 15.9 |  |  |  | \$22,433 | \$0 |

## APPENDIX "E":

IRRS PROJECT RECOMMENDATIONS BY COUNTY (cont'd)

| County | State Route | Beginning Post Mile | Ending Posl Mile | Project Length | PROJECT DESCRIPTION LocationName | Improvement | Calitans District | 1989* <br> Stale Cost | 1989* <br> Local Cost |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Solano | 12 | 0.0 | R2.6 | 2.6 | Route 29 to Route 80 (Solano) | Widen 2 lanes to 4 lane Expressway | 10 | \$11,191 |  |
| Solano | 12 | 22.7 | 25.6 | 2.9 | Rio Vista | Widen \& realign | 10 | \$3,740 |  |
| Solano | 80 | 31.2 | 40.6 | 9.4 | Dixon | Widen 6 lane Freeway to 8 lanes | 10 | \$17.470 |  |
| Solano County Totals |  |  |  | 14.9 |  |  |  | \$32.401 | \$0 |
| Sonoma | 101 | 0.0 | 1.3 | 1.3 | 5 miles south of Petaluma | Convert 4 lane Expressway to 4 lane Freeway | 4 | \$20,940 |  |
| Sonoma | 101 | 1.3 | 3.2 | 1.9 | Petaluma | Convert 4 lane Expressway to 4 lane Freeway | 4 | \$13,130 |  |
| Sonoma County Totals |  |  |  | 3.2 |  |  |  | \$34,070 | \$0 |
| Stanislaus | 120 | 3.5 | R6.3 | 2.8 | Oakdale Bypass (Phase 1) | Construct 2 lane Expressway on new alignment | 10 | \$14,030 |  |
| Stanislaus | 120 | R6. 2 | R6. 5 | 0.3 | Oakdale Bypass (Phase 2) | Construct interchange | 10 | \$4.000 |  |
| Stanislaus | 120 | 7.3 | 10.3 | 3.0 | 5 miles east of Oakdale | Widen 2 lane Expressway to 4 lanes | 10 | \$6,367 |  |
| Stanislaus | 120 | R11.2 | R15.0 | 3.8 | Lover's Leap Bypass | Construct 4 lane Expressway on new alignment | 10 | \$36,128 |  |
| Stanislaus | 120 | R15.0 | R17.3 | 2.3 | 10 miles east of Oakdale | Widen 2 lanes to 4 lane Expressway | 10 | \$7.060 |  |
| Stanislaus County Totals |  |  |  | 12.2 |  |  |  | \$67.585 | \$0 |
| Tehama | 5 | 28.2 | 42.1 | 13.9 | Hooker Creek Hills | Widen 4 lane Freeway to 6 lanes | 2 | \$6,000 |  |
| Tehama | 99 | 0.0 | 4.5 | 4.5 | 15 miles north of Chico | Widen 2 lane Expressway to 4 lanes | 2 | \$5,200 |  |
| Tehama County Totals |  |  |  | 18.4 |  |  |  | \$11,200 | \$0 |
| Trinity | 299 | 29.4 | 30.2 | 0.8 | Manzanita Creek | Add passing lanes (WB) | 2 | \$831 |  |
| Trinity | 299 | 37.1 | 37.9 | 0.8 | Helena | Add passing lanes (EB) | 2 | \$2,102 |  |
| Trinity | 299 | 44.8 | 45.6 | 0.8 | Junction City | Add passing lanes (EB \& WB) | 2 | \$904 |  |
| Trinity | 299 | 45.5 | 46.9 | 1.4 | Oregon Mountain | Add truck climbing lane (EB) | 2 | \$2,100 |  |
| Trinity | 299 | 49.2 | 54.4 | 5.2 | Weaverville | Improve capacity | 2 | \$20,200 |  |
| Trinity | 299 | 56.7 | 57.1 | 0.4 | Weaver Creek | Add passing lanes (WB) | 2 | \$645 |  |
| Trinity | 299 | 72.0 | 72.3 | 0.3 | Buckhorn | Realign \& widen 2 lanes to 4 lane Expressway | 2 | \$1,500 |  |
| Trinity County Totals |  |  |  | 9.7 |  |  |  | \$28,282 | \$0 |
| Tulare | 65 | 0.0 | R7.0 | 7.0 | 15 miles south of Porterville | Widen 2 lane Expressway to 4 lanes | 6 | \$7,700 |  |
| Tulare | 65 | R7.0 | 17.7 | 10.7 | 5 miles south of Porterville | Widen 2 lane Expressway to 4 lanes | 6 | \$11,800 |  |
| Tulare | 65 | 29.3 | R38.1 | 8.8 | Lindsay to Exeter | Construct 2 lane Expressway on new alignment | 6 | \$16,810 |  |
| Tulare | 99 | 0.0 | 9.2 | 9.2 | Delano to Earlimart | Widen 4 lane Freeway to 6 lanes | 6 | \$11,400 |  |
| Tulare | 99 | 9.2 | 18.4 | 9.2 | Pixley to Tipton | Widen 4 lane Freeway to 6 lanes | 6 | \$10,860 |  |
| Tulare | 99 | 30.6 | 39.6 | 9.0 | Tulare to Near Visalia | Widen 4 lane Freeway to 6 lanes | 6 | \$12,050 |  |
| Tulare | 99 | 39.6 | R53.9 | 14.3 | Visalia to Kingsburg | Widen 4 lane Freeway to 6 lanes | 6 | \$18.550 |  |
| Tulare | 198 | 0.0 | R3.3 | 3.3 | Hanford to Visalia | Widen 2 lanes to 4 lane Expressway | 6 | \$6.700 |  |

## APPENDIX "E":

IRRS PROJECT RECOMMENDATIONS BY COUNTY (cont'd)


High Emphasis Route

* $\ln \$ 1000$ s

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[^0]:    - Other Priority Routes (1812 miles) - The High Emphasis Routes do not directly serve all economic centers in the state. Key cities like Hemet, Napa, and Sonora, and recreational areas like Lake Tahoe and Yosemite National Park are not served. Further, vital links between urbanized areas, such as between the Palmdale/Lancaster and the San Bernardino/Riverside urbanized areas, are missing. Thus, the department has identified Other Priority Routes as a second IRRS subsystem grouping. These routes are also shown on Map Two.

[^1]:    * (in millions of dollars)

