Design Scoping Index

Attach the project location map to index to show the location of all design improvements.

|  |  |
| --- | --- |
| Today’s Date: |  |
| Status (Initial, Update): |  |

**General Information:**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| District: | County: | Route: | Post Mile | Project Number |
|  |  |  |  |  |

|  |  |  |  |
| --- | --- | --- | --- |
| Project Manager |  | Phone # |  |
| Task Manager |  | Phone # |  |
| Project Engineer |  | Phone # |  |
| Design Functional Manager |  | Phone # |  |

|  |  |
| --- | --- |
| General Project Description: |  |
| Project Need: |  |
| Project Purpose: |  |

|  |  |  |  |
| --- | --- | --- | --- |
| Item | Considerations | Yes/No/Specify | Comments (summarize pertinent information. assumptions and reference location of detailed information): |
| 1. Project Setting (refer to Planning Scoping Checklist) | Rural or Urban? |  |  |
| Current Land Uses: (e.g., industrial, light industry, commercial, agricultural residential etc). |  |  |
| Adjacent Land Uses: |  |  |
| Existing Landscaping: |  |  |
| Designated or Eligible Scenic Highway |  |  |

The following pages are to be used for each alternative provided that the scope is significantly different. If a route has been adopted as a freeway, a decision must be made as to whether or not the project will address improvements to the existing traversable highway or move to construction of a freeway facility.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Item | Considerations | | Yes/No/Specify | Comments (summarize pertinent information, assumptions and reference location of detailed information): |
| Design Concept and Route Matters | 1. | Design Concept? |  |  |
| Freeway/Expressway/ Conventional Highway |  |  |
| Mixed highway and transit |  |  |
| Mixed highway and rail |  |  |
| Urban |  |  |
| Other |  |  |
| 2. | Existing Route Adoption Date |  |  |
| 3. | New Route Adoption Proposed? |  |  |
| 4. | Existing Freeway Agreement Date |  |  |
| 5. | New Freeway Agreement Proposed? |  |  |
| 6. | Public Road Connection Proposed? |  |  |
| Design Criteria | 1. | Design speed for highway facilities within the project limit |  |  |
| mi/hr? |  |  |
| 2. | Design Period: (10 yr/15 yr/20 yr) |  |  |
| Construction Year |  |  |
| Design Year |  |  |
| 3. | Design Capacity - Level of Service to be maintained over the design period: |  |  |
| Mainline |  |  |
| Ramp |  |  |
| Local Street |  |  |
| Weaving Sections |  |  |
| 4. | Design Vehicle Selection |  |  |
| STAA |  |  |
| California |  |  |
| Bus |  |  |

|  |  |
| --- | --- |
| Forecasted Average Daily Traffic volumes |  |
| Percent truck volume | % |

Proposed Roadbed and Structure Widths

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  | Roadbed Width | | | Structure Width | | |
| **State Highway** | Existing | Proposed | Standard | Existing | Proposed | Standard |
| Lane widths/# |  |  |  |  |  |  |
| Left Shoulder |  |  |  |  |  |  |
| Right Shoulder |  |  |  |  |  |  |
| Median Width |  |  |  |  |  |  |
| Bicycle lane |  |  |  |  |  |  |
| Sidewalk |  |  |  |  |  |  |
| Planting strip |  |  |  |  |  |  |
|  |  |  |  |  |  |  |
| **Local Streets** |  |  |  |  |  |  |
| Lane widths/# |  |  |  |  |  |  |
| Left Shoulder |  |  |  |  |  |  |
| Right Shoulder |  |  |  |  |  |  |
| Median Width |  |  |  |  |  |  |
| Bicycle lane |  |  |  |  |  |  |
| Sidewalk |  |  |  |  |  |  |
| Planting strip |  |  |  |  |  |  |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Item | Considerations | | Yes/No/Specify | Comments (summarize pertinent information, assumptions and reference location of detailed information): |
| Roadway Design Scoping | 1. Mainline Operations | Main lane highway widening? |  |  |
|  |  | Existing pavement to be rehabilitated with Asphalt Concrete/Rubberized AC/PCC? |  |  |
| Widen existing facility from \_\_ lanes to \_\_lanes. |  |  |
| Local street structures to span \_\_\_ lanes. |  |  |
| Curb extensions |  |  |
| Shoulder improvements |  |  |
| Bicycle lanes |  |  |
| Pedestrian refuge islands |  |  |
| Sidewalks |  |  |
| Right of Way acquisition required for \_\_\_ lanes. |  |  |
| Upgrade existing facility to: Expressway/Freeway/ Controlled Access Highway/ Traversable Highway Standards? |  |  |
| Improve Vertical Clearance |  |  |
| Adequate Falsework Clearance |  |  |
| Traffic calming features |  |  |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Item | Considerations | | Yes/No/ Specify | Comments (summarize pertinent information, assumptions and reference location of detailed information): |
| Roadway Design Scoping | 2. Ramp/Street Intersection Improvements | New Signals? |  |  |
| Modify Existing Signals? |  |  |
| Right Turn Lanes |  |  |
| Widening for Localized Through lanes? |  |  |
| Merging Lanes? |  |  |
| Deceleration/ Acceleration lanes? |  |  |
| Left Turn Lanes? |  |  |
| >300 VPH Left Turn (Requires Double Left Turn Lane) |  |  |
| Interchange Spacing? |  |  |
| Ramps Intersect Local Street < 4% grade? |  |  |
| Intersection Spacing? |  |  |
| Exit Ramps >1,500 VPH (Requires two lane exit) |  |  |
| Single lane ramps exceeding 1000’ widened to Two lanes |  |  |
| Curb Ramps? |  |  |
| Pedestrian Facilities? |  |  |
| Other? |  |  |
| Operational Improvements | Truck Climbing Lane | Sustained Grade exceeding 2% and Total Rise Exceeds 50’? |  |  |
| Other? |  |  |
| Auxiliary Lanes | 2000’ between Successive On-Ramps? |  |  |
| Two lane Exit Ramps have 1300’ Auxiliary Lane? |  |  |
| Weaving < 2000’ between off-ramp and on-ramp? |  |  |
| Other? |  |  |

|  |  |  |  |
| --- | --- | --- | --- |
| Item | Considerations | Yes/No/ Specify | Comments (summarize pertinent information, assumptions and reference location of detailed information): |
| Right of Way Access Control | Existing access control extends at least 50 ft beyond end of curb return, radius or taper? |  |  |
| New construction access control extends at least 100’ (urban areas) or 300’ (rural areas) beyond end of curb returns, radius or taper? |  |  |
| Other? |  |  |
| Highway Planting and Irrigation | Clearing and Grubbing? |  |  |
| Relocate Existing Irrigation Facilities? Highway Planting and Irrigation (including median and roadside) |  |  |
| Roadside Management | Vegetation control treatments (road edge, guardrails, signs, drainage facilities, miscellaneous pavement narrow areas, etc.) |  |  |
| Modernization and clustering of facilities and hardware (removing and replacing other items), gore area pavement |  |  |
| Rehabilitate gore area pavement and pavement beyond gore areas (remove and replace miscellaneous pavement and curbs |  |  |
| Contour grading, slope rounding, stepped slopes and topsoil reapplication |  |  |
| Side slopes/embankment slope |  |  |
| Safety | Off-Freeway Access (gate, access road, and stairways) |  |  |
| Maintenance Vehicle Pull-Out |  |  |
| Adequate safety working conditions |  |  |
| Relocate roadside facilities/features (cabinets, poles, pull boxes and vaults) away from traffic |  |  |
| Hydraulics/ Stormwater (Refer to the Stormwater data sheet) | Erosion Control? |  |  |
| Drainage? |  |  |
| Slope Design? |  |  |
| Structures (Refer to Structures Scoping Checklist or APS) | New Bridge? Providing public access for recreational purposes must be fully considered for new bridges over navigable rivers. |  |  |
| Bridge Rehabilitation? |  |  |
| Retaining Wall |  |  |
| Bicycle or Pedestrian Overcrossing/Undercrossing |  |  |
| Other |  |  |
| On STRAIN list for: |  |  |
| Other | Class I Bikeway (bicycle path) |  |  |