

PROJECT ENGINEERING REVIEW – ROADWAY

General Information

- **General Information**

This document documents and outlines information to be used the preparation of project plans for... (project number and description here)

- **Important Background Information; Notable Existing Conditions; Probable Constraints, Significant Concerns, Considerable Challenges or Promises Made**

Suggested Items to note: Other projects affecting this project or affected by this project; Alternates to consider; Special Requirements; History/Institutional Memories; Prior studies; Comprehensive Plan Elements; As-built plan review; Key Sources of information or contacts; Character of the Area, Adjacent development, subdivisions, plats, discussion of key construction phasing issues, area events, timing coordination; Previous Agreements; Commitments, Promises Made; Expectations Previously approved; Sub-Divisions or Annexation Requirements; funding and/or bonding Right-of-Way dedications; Sidewalk or turn lane Funding; Future maintenance responsibilities (physically and/or financially); Any known issues to bear in mind (geotechnical; special events; permits; railroads, key stake holders; investigations needed; reviews, airports, key sources)

Roadway Issues

If applicable, see Project Design Information Memo – ROADWAY for summary information.

General discussion of any details/issues/concerns requiring more description than the memo provides for or if the Roadway memo is not applicable briefly discuss any roadway issues that need to be considered or reviewed.

- **Access Issues**

Driveways, Median Access, Turn Lanes & U-Turns:

Describe in paragraph form. – Existing Locations, Future Locations, Possible Relocations, Combining locations, Uses of those access points, etc.

OR attach sketches labeled “Exhibit ACCESS-X”

- **Project Termination Transitions**

Describe in paragraph form. – Taper Lengths, sections, describe what measures are needed to tie into a section different from the section you are designing.

Traffic Issues

If applicable, see Project Design Information Memo – TRAFFIC for summary information.

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- **Traffic Data**

*If completed Attached Traffic Study labeled “**Exhibit TRAF**”*

Describe in paragraph form. - Existing traffic counts; Future traffic projections, Turning movements at intersections and driveways; Crash Data, Accident Analysis; Suggested Safety Improvements; Recommended Counter measures

- **Traffic Signals**

*If completed Attached Signal Design Memo labeled “**Exhibit XXXX**”*

Describe in paragraph form. –

- **Intelligent Transportation Systems (ITS)**

Describe in paragraph form. – Any ITS elements to be considered, regional architecture plan elements

- **Street Lighting**

Describe in paragraph form. – Street lighting shall be designed by LES for the full length of the project. Street Lighting shall be drafted by ...

Drainage Issues

If applicable, see Project Design Information Memo – STORMWATER for summary information.

- **Storm Drainage**

Describe in paragraph form. – Hydraulic/Hydrologic Matters, Determine if Project is within a flood plain, significant stream crossing, channel changes, Major Drainage Elements (bridges, culverts, pedestrian, bikeway, trail elements); Any Basin Study Information; Drainage Issues; Localize Flooding Elevations; Erosion Problems; Preliminary Structures; Type; Size; Location; Critical Elevations and/or Clearances, Historical Flooding or Drainage Issues, Upstream and downstream items to be aware of.

- **Erosion Control**

Describe in paragraph form. – Existing Erosion Concerns; Project Specific Erosion Control Strategies for both construction and longer term. Seeding, Temporary Seeding, etc.

Structural Issues

If applicable, see Project Design Information Memo – BRIDGE for summary information.

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- **Bridge, Large Culverts, and/or Retaining Walls**

Describe in paragraph form. – *Alternative Analysis, Structure Design Alternatives, Bridge Type, Size & Location, Pour and/or block walls, location of wall, maintenance of wall, etc.*

Utility Section

- **Water Issues**

If applicable, see Project Design Information Memo – WATER for summary information.

Describe in paragraph form. - *General discussion of the likely needs, design criteria, and issues, etc.*

- **Wastewater Issues**

If applicable, see Project Design Information Memo – WASTEWATER for summary information.

Describe in paragraph form. - *General discussion of the likely needs, design criteria, and issues, etc.*

- **Private Utilities**

Describe in paragraph form. - *General discussion of the likely needs and issues, specific conflicts, things that will take time, big ticket items, major work efforts, alternatives to consider, costly to accomplish, etc.*

Other Project Matters

- **Public Involvement & Information Strategy Items**

See Checklist for listing of the known stakeholders and contact status.

Describe in paragraph form. – *General discussion of the likely public interest and issues, Meetings, types of contacts, announcements, newsletters, web page, Project Contacts, Affected Parties. General discussion of the Key Stakeholders with any details/issues/concerns requiring more description than the checklist provides for.*

- **Right of Way**

Describe in paragraph form. – *General discussion of project specific issues not covered in summary memo.*

- **Environmental**

Describe in paragraph form. – *Need for NEPA Environmental Review, Hazardous Material Review, Environmental Assessment, Environmental Impact Statement, Endangered Species Review, Historical/Archeological Review, Wetlands*

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Delineation / Mitigation, Public Land Impacts (4F or 6F), known issues, challenges, concerns, not covered in checklist.

- **Pedestrians / Trails / Bikeways**

Describe in paragraph form. – *Pedestrian, Bikeway and Trail Elements*

- **How will pedestrian concerns be addressed during construction?**

Describe how pedestrians will navigate the construction zone, or if the project limits will be closed to pedestrians. Describe any temporary crossings that will be needed with the project.

- **How will pedestrian concerns be addressed with the design of the project?**

Describe the number of lanes pedestrians need to cross at major intersections and how this relates to pedestrian perceived safety and comfort. Describe items that are designed or have been investigated with the project to aid pedestrians such as signal controls (pedestrian activated or automatic walk signal phases), median refuge islands, median cuts, crosswalk treatment, street lighting, pedestrian crossing signs, school crossing flashers, line-of-sight triangle for pedestrians and drivers, curb radii, bulbouts, stop bar placement, etc. Describe any mitigation actions required or investigated during design.

- **How will the existing project design mesh with long-range planning projects and trails for the area?**

Future sidewalks and trails outlined in Comprehensive Plan, etc.

- **Landscaping, Streetscaping and/or Any Other Amenities**

Describe in paragraph form. – *Landscaping, Streetscaping, Retaining Wall treatments, Underpass Lighting and any other amenities*

- **Median Treatments** – *seeding, sodding, planting, irrigation.*
- **Retaining Walls** – *Special treatments*
- **Hardscape** – *Street Furniture*
- **Colored Concrete** – *Medians, sidewalks, etc.*

- **Maintenance**

Describe in paragraph form. – *Need for maintenance agreements, outline timing, notifications, and responsibilities. Mowing, Median Landscaping, Snow Removal, Long Term Maintenance, Construction Maintenance, etc.*

- **Permits/Agreements/Certifications**

Describe in paragraph form. – *General discussion of any details/issues/concerns requiring more description than the checklist provides for, i.e. following the State's process if Federal Funds are involved.*