|  |  |  |
| --- | --- | --- |
| **Town:**  | **Route:**  | **WIN:** |
| **State Project No:**  | **Federal Project No:**  |
| **Project Type:**  |
| **Project Location:**  |
| **Length:**  | **BMP:** | **Begin Latitude/Longitude:** |
|  | **EMP:** | **End Latitude/Longitude:** |
|  |
| **Program: Multimodal Program**  | **Program Manager: Jeff Tweedie**  |
| **Project Manager:**  | **Designer:** |
| **FHWA Oversight:**  | **Engineer of Record:** |

**LOCATION MAP** *Insert map similar to the example below using Google Earth or a similar program. Please label beginning and ending points of a project.*

**PLANNING**

**Project History:**

**Purpose & Need:**

**Brief Summary of Proposed Scope of Work:**

**Scope changes:**

**TRAFFIC**

***Intersections***

**Design Vehicle (without encroachment):**

**Design Vehicle (with encroachment):**

**Auxiliary Lanes:**

***Crash Data***

**Analysis Period:**

**High Crash Locations (including Critical Rate Factor and number of crashes):**

**DESIGN CRITERIA**

***Basic Design Controls***

|  |  |  |  |
| --- | --- | --- | --- |
|  | **Section 1** | **Section 2** | **Section 3** |
| **Corridor Priority** |  |  |  |
| **Functional Class** |  |  |  |
| **NHS/Non-NHS** |  |  |  |
| **Posted Speed** |  |  |  |
| **20XX AADT (Current)** |  |  |  |
| **20XX AADT (Design)** |  |  |  |
| **DHV** |  |  |  |
| **Scope (choices below)** |  |  |  |
| (New Construction, Reconstruction, Rehabilitation, Restoration/Resurfacing, Spot Improvement |

***Controlling Criteria***

|  |  |  |  |
| --- | --- | --- | --- |
| **Element** | **Required Standard** | **Required Standard** | **Required Standard** |
|  | **Section 1** | **Section 2** | **Section 3** |
| **Design Speed** |  |  |  |
| **Lane Width** |  |  |  |
| **Shoulder Width** |  |  |  |
| **Horizontal Curve Radius** |  |  |  |
| **Superelevation Rate** |  |  |  |
| **Stopping Sight Distance** |  |  |  |
| **Maximum Grade** |  |  |  |
| **Cross Slope (Travelway)** |  |  |  |
| **Vertical Clearance** |  |  |  |
| **Clear Zone** |  |  |  |

***Typical Section***

|  |  |  |  |
| --- | --- | --- | --- |
| **Element** | **Proposed Value** | **Proposed Value** | **Proposed Value** |
|  | **Section 1** | **Section 2** | **Section 3** |
| **Lane Width** |  |  |  |
| **Shoulder Width** |  |  |  |
| **Cross Slope (Travelway)** |  |  |  |
| **Side Slopes\*** |  |  |  |

*\*If side slope standards cannot be met, no Design Exception will be required. If not meeting side slope standards results in clear zone standards not being met, a clear zone design exception will be required.*

**DESIGN EXCEPTION SUMMARY**

[ ]  **No design exceptions are required.**

***Controlling Criteria***

|  |  |  |  |
| --- | --- | --- | --- |
| **Element** | **Required Standard** | **Proposed Value** | **Date Approved** |
|  |  |  |  |
|  |  |  |  |

***Drives and Entrances***

|  |  |  |  |
| --- | --- | --- | --- |
| **Station** | **Maximum Grade** | **Grade Change** | **Date Approved** |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |

**PAVEMENT STRUCTURE**

**Pavement Structure Design**

|  |  |  |
| --- | --- | --- |
| **Design Method** | **Design Guidance** | **DARWin 3.1** |
| **Layer** | **Thickness** | **Type**  | **Thickness** | **Type** |
| **Hot Mix Asphalt Pavement** |  |  |  |  |
| **Recycled Layer**  |  |  |  |  |
| **Base Course Gravel** |  |  |  |  |
| **Subbase Course Gravel** |  |  |  |  |
| **Shoulder Pavement** |  |  |  |  |

**Final Pavement Structure Design**

|  |  |  |
| --- | --- | --- |
| **Design Method** | **Design Guidance** | **DARWin 3.1** |
| **Layer** | **Thickness** | **Type**  | **Thickness** | **Type** |
| **Hot Mix Asphalt Pavement** |  |  |  |  |
| **Recycled Layer**  |  |  |  |  |
| **Base Course Gravel** |  |  |  |  |
| **Subbase Course Gravel** |  |  |  |  |
| **Shoulder Pavement** |  |  |  |  |

**Comments:**

**COMPLETE STREETS COMPLIANCE**

*A Complete Street provides safe and efficient access to the transportation system to all users. Each element of a Complete Street shall be considered according to the guidelines in the* [MaineDOT Complete Streets Policy.](http://www.maine.gov/mdot/engineering/docs/policies/2018/MaineDOT-Complete-Streets-Policy.pdf)

**Select the Complete Streets elements incorporated into the project:**

[ ]  **Sidewalks**

[ ]  **Crosswalks**

[ ]  **Lighting (street or pedestrian scale)**

[ ]  **Pedestrian Signals**

[ ]  **Streetscaping (benches, landscaping, etc.)**

[ ]  **Shoulder Improvements**

[ ]  **Bike Lanes/Shared Use Paths**

[ ]  **Public Transit (bus stops, etc.)**

[ ]  **Other (explain)**

**Summarize:**

**Select the most applicable reason(s) these elements may not be incorporated into the project:**

[ ]  **Use by pedestrians, bicyclists, and others is prohibited by law.**

[ ]  **The cost is disproportionate to the need or probable use.**

[ ]  **Components are outside the scope, due to the nature of the project.**

**Summarize:**

**ADA COMPLIANCE**

*Pedestrian facilities shall be upgraded to comply with the* [MaineDOT ADA Compliance Policy for Construction and Maintenance](http://www.maine.gov/mdot/civilrights/docs/ada/ADACompliancePolicy.pdf) *and the* [Minimum ADA Requirements for Pedestrian Facilities Design Guidance](http://www.maine.gov/tools/whatsnew/attach.php?id=816900&an=1).

**Select all that apply:**

[ ]  **No pedestrian facilities exist on the project and none will be installed.**

[ ]  **Existing pedestrian facilities will not be upgraded to ADA compliance based on project scope.**

[ ]  **New pedestrian ADA compliant facilities will be installed where none previously existed.**

[ ]  **Existing pedestrian facilities will be upgraded to ADA compliance unless technically infeasible.**

[ ]  **Pedestrian signals will be installed or upgraded if required.**

**Summarize:**

*If a new or upgraded curb ramp cannot fully comply with the* [MaineDOT ADA Compliance Policy for Construction and Maintenance](http://www.maine.gov/mdot/civilrights/docs/ada/ADACompliancePolicy.pdf) *and the* [Minimum ADA Requirements for Pedestrian Facilities Design Guidance](http://www.maine.gov/tools/whatsnew/attach.php?id=816900&an=1)*, an* [ADA Technical Infeasibility Form](https://www.maine.gov/mdot/civilrights/ada/docs/2019/Technical-Infeasibility-Form-2019-May.pdf) *must be submitted for approval for each location identified.*

[ ]  **No technical infeasibility forms are required to be completed at this time.**

[ ]  **Technical infeasibility forms have been submitted as indicated in the table below.**

|  |  |  |
| --- | --- | --- |
| **Curb Ramp ID/Location** | **Reason Full Compliance Infeasible** | **Date Approved** |
|  |  |  |
|  |  |  |

**Summarize:**

**ENVIRONMENTAL COORDINATION**

*(To be completed by the Environmental Office)*

**Team Member:**

|  |  |
| --- | --- |
| **Project Scope/Description** |  |
| **NEPA Determination** |  |
| **STIP Date** |  |
| **Section 106** |  |
| **Section 4(f)** |  |
| **Section 6(f)** |  |
| **Federal Endangered Species** |  |
| **State Endangered Species** |  |
| **Essential Fish Habitat**  |  |
| **Fish Passage Design Review**  |  |
| **In-Stream Work Window/Other Construction Restrictions** |  |
| **Hazardous Material** |  |
| **Dredge Material** |  |
| **Stormwater/MS4** |  |
| **DEP/LUPC** |  |
| **ACOE** |  |
| **Mitigation**  |  |
| **Other** |  |

**RIGHT-OF-WAY COORDINATION**

**Team Member:**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | **Section 1** | **Section 2** | **Section 3** | **Section 4** |
| **Total Existing Width:** |  |  |  |  |
| **Total Proposed Width:** |  |  |  |  |
|  |
| **# of Abutters:**  |
| **# of Acquisitions:**  |
| **# of Relocations:**  |
| **Building Availability:**  |
| **Reserved Limits:** |

**UTILITY COORDINATION**

**Utility Coordinator:**

**Above Ground Utilities:**

**Below Ground Utilities:**

|  |  |  |
| --- | --- | --- |
|  | **Necessary for this Project?** **(Yes or No)** | **Coordination Still Needed?****(Yes or No)** |
| **Pole List:** |  |  |
| **Utility Agreements**: |  |  |
| **RR PRTS:** |  |  |
| **Railroad Agreement:** |  |  |

**ROW issues** **related to utilities:**

**GEOTECHNICAL COORDINATION**

*(To be completed by the Geotechnical Section)*

**Team Member:**

**Available Soils Information:**

**Additional Borings Required? (Y/N)**

**Additional Geotechnical Analysis Required? (Y/N)**

**Comments by Geotechnical Engineer:**

**Are foundations for Overhead Sign Structures, Traffic Signals or Lighting Required? (Y/N)**

**(If yes, one boring per foundation is required.)**

**PUBLIC PROCESS**

**Proposed Public Contact Method and Date(s):**

**Concerns Identified at Preliminary Public Meeting:**

**M&O ISSUES /CONCERNS**

**CONSTRUCTION SCHEDULE**

|  |  |
| --- | --- |
| **PS&E Date** |  |
| **Advertise Date** |  |
| **Construction Begin Date** |  |
| **Construction Complete** |  |

**TAME RESULTS** *(Transfer results from returned Tame Request Form)*

|  |  |
| --- | --- |
| **Morning Restrictions** |  |
| **Evening Restrictions** |  |
| **Maximum Closure Length** |  |
| **Minimum Lane Width** |  |

**Additional Comments:**

**BUDGET**

|  |  |  |  |
| --- | --- | --- | --- |
|   | **Programmed** | **Available** | **PDR Estimate** |
| **Date** |  |  |  |
| **Preliminary Engineering** |  |  |  |
| **Right of Way** |  |  |  |
| **Construction** |  |  |  |
| **Construction Engineering** |  |  |  |
| **Other** |  |  |  |
| **TOTAL** |  |  |  |
| **Total Cost per Mile:** |  |  |  |
| **Funding Strategy *(Sources)*:** |  |

**SUMMARY OF PRELIMINARY ENGINEERING**

***Alternatives Analysis***

*(This may only be applicable to some projects, such as Large Culverts, Rehabilitations, and Roundabouts.)*

**Design Variances**

*(Discuss design elements that do not meet standard but do not require a formal design exception)*

***Proposed Design Elements***

*(Discuss existing vs. proposed condition)*

**Horizontal Alignment:**

**Vertical Alignment:**

**Typical Section:**

**Pavement Structure:**

**Drainage/Hydrology:**

**Guardrail:**

**Intersection Geometry:**

**Right-of-Way:**

**Utilities:**

**Other Design Issues:**

*(Discuss any issues that have been identified but have not yet been resolved.)*

**DRAFT PDR DISTRIBUTION TEAM COMMENTS AND RESPONSE**

*(Minor edits and corrections can be made to the body of this document above without reference in this section. More significant comments that result in design or other changes should be noted in this section before the Final Distribution.)*

**Comments:**

|  |  |
| --- | --- |
| **Comment Deadline**  | **Date:**  |

**APPROVALS**

**Local Agency Approval**

|  |  |  |
| --- | --- | --- |
| **Preliminary Design Report Complete****LPA certified official** |  | **Date:**  |

**MaineDOT Approval**

|  |  |  |
| --- | --- | --- |
| **Preliminary Design Report Complete** |  | **Date:**  |

***For Large Culvert Projects, Preliminary Design Report Complete also signifies Plan Impacts Complete.***