

PROJECT ENGINEERING RECORD (3R)

FEDERAL/STATE PROJECT NO.: _____

SPONSOR PROJECT NO.: _____

SPONSOR: _____

In accordance with the *Design Criteria for 3R Projects (Section 3)* found in the ALDOT [LPA Road Design Policy](#) , the following information is submitted:

Guideline 1: Current Conditions

Functional Classification: Local Road Collector Arterial

Setting: Rural Urban

Terrain: Level Rolling Mountainous

Route Type: NHS Non-NHS

Estimated Cost of Improvements: \$ _____

Project Description:

Existing ROW Width: _____ Additional ROW Required? Yes No

If yes, Acres of ROW Needed: _____

Temporary or permanent easement(s) required? Yes No

If yes, list type of easement(s) and how many acres are needed:

Design Speed _____ MPH

Traffic Counts and Crash Data:

Present Traffic Count/ Year: _____

Design Traffic Count/ Year (10 Year): _____

Percentage of Trucks: _____

The crash data for the period of _____ to _____ is listed below:

_____ Total Crashes

- | | |
|--------------------------------|-----------------------------------|
| _____ Single Vehicle | _____ Multi-Vehicle |
| _____ Intersection Related | _____ Segmental |
| _____ Fatalities | _____ Class A (Serious) Injuries |
| _____ Class B (Minor) Injuries | _____ Class C (Possible) Injuries |
| _____ Dawn Crashes | _____ Daylight Crashes |
| _____ Dusk Crashes | _____ Night Unlighted Crashes |
| _____ Night Lighted Crashes | _____ Unknown Surface Crashes |
| _____ Wet Condition Crashes | _____ Dry Condition Crashes |
| _____ Other _____ | |

List the location (node or between nodes) and primary cause for any crash that resulted in a fatality or Class A (suspected serious) injury:

Does the crash data reveal any site-specific areas that pose safety concerns that need to be addressed? Yes No

If yes, state the location, safety concern, and proposed countermeasure to make the area of concern safer for the traveling public:

Guideline 2: Project Scope

Are there any utilities in conflict with this project? Yes No

Is there a railroad crossing in the project limits to require an agreement? Yes No

Guidelines 3 & 5: Lane Widths, Shoulder Widths, and Shoulder Types

Existing Traveled Way Width(s) (ft): _____

Existing Number of Lanes: _____

Existing Lane Width(s) (ft): _____

Existing Shoulder Width(s) and Type(s) (ft): _____

Will lane widths, shoulder widths, or shoulder types be improved? Yes No

If yes, state proposed values for:

lane width _____ shoulder width/type _____

Note: Figures 3-2 through 3-4 in the LPA Road Design Policy may aid the designer with definitions of widths. All shoulders shall be flushed and maintained at the width(s) determined from these guidelines.

Guideline 4: Cross Slopes

Will cross slope corrections be required? Yes No

Required cross slope (lanes): _____

Required cross slope (paved and/or unpaved shoulders): _____

Guideline 8: Bridges and Culverts

Are there any existing bridges within the project limits? Yes No

If yes, provide the following information:

BIN	Begin Station	End Station	Bridge Length	Curb to Curb Width	Is Structure Weight Restricted? (Yes/No)	Are Posted Signs In Place? (Yes/No)	● Is Bridge Considered To Be Narrow? (Yes/No)	*Adequate Guardrail System In Place? (Yes/No)

● If yes, “narrow bridge” signs should be installed by contract or LPA forces.

* See **Guidelines 10-14** for guardrail and end anchor requirements.

Are there any existing box or bridge culverts within the project limits? Yes No

If yes, provide the following information:

BIN	◇ Begin Station	◇ End Station	Skew Angle	△ Culvert Width	Is Structure Weight Restricted? (Yes/No)	Are Posted Signs In Place? (Yes/No)	Guardrail In Place? (Yes/No)	□ Guardrail Required? (Yes/No)

◇ The difference in stations should reflect the centerline length of the structure, which does not include the outer walls (opening to opening).

△ Measured from inside of parapets 90 degrees to centerline

□ If yes, see **Guidelines 10-14** for guardrail and end anchor requirements.

Guideline 9: Side Slopes and Clear Zones

Are there currently any existing side slopes that are steeper than 3:1 or any isolated roadside objects within the desirable clear zone? Yes No

If there are existing slopes steeper than 3:1, is it cost beneficial to flatten the slopes? Yes No N/A

Minimum clear zone or lateral offset width proposed (ft): _____

Maximum (steepest) front slope proposed (3:1, 2:1, slope to fit, etc.) _____

*Note: If front slopes steeper than 3:1 are proposed, please see **Guideline 14**.*

Guideline 15: Right-of-Way Encroachments

Were any encroachments identified during the scope of work review that need to be removed prior to project authorization? Yes No

Were any items (fences, etc.) identified during the scope of work review that may remain under certain conditions? Yes No

Description of item(s) to remain: _____

Guideline 16: Bicycle/Pedestrian Facilities

Are there any existing pedestrian crossings within the project limits that will require upgrading to be in compliance with the American with Disabilities Act? Yes No

Will any new bicycle/pedestrian facilities be installed? Yes No

Guideline 17: Intersection Improvements

Will any of the following improvements be performed in this project?

Add/lengthen turn lane(s) Install/upgrade traffic signals Roundabout(s)

Other _____

Design Vehicle: _____

Note: Please attach "Autoturn", "Synchro 95th/50th Queue Summary", Roundabout Capacity, and Roundabout "Fastest Path" Analyses as applicable when turn lanes, signals, or roundabouts will be installed.

Non-Contract Items of Work

Will the sponsor perform any items of work at no cost to the project, prior to project authorization? Yes No

Description of item(s):

Additional comments:

SUBMITTED FOR APPROVAL: _____ Date: _____
LPA Representative

- Attachments:
- Location Map (Required)**
 - Autoturn Analysis
 - Synchro Analysis
 - Roundabout Capacity Analysis
 - Fastest Path Analysis
 - Other _____

APPROVED: _____ Date: _____
State Local Transportation Engineer