## **PROJECT ENGINEERING RECORD (3R)**

| CDONCOD.                                                                                                                                            |                                                                                                                                                                                                                                                          |
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| In accordance with the <i>Design Criteria for</i> <u>Design Policy</u> , the following information is                                               |                                                                                                                                                                                                                                                          |
| Guideline 1: Current Conditions                                                                                                                     |                                                                                                                                                                                                                                                          |
| Functional Classification: Local Road □ Co<br>Setting: Rural □ Urban □<br>Terrain: Level □ Rolling □ Mountainous<br>Route Type: NHS □ Non-NHS □     |                                                                                                                                                                                                                                                          |
| Project Description:                                                                                                                                |                                                                                                                                                                                                                                                          |
|                                                                                                                                                     |                                                                                                                                                                                                                                                          |
| Regin Station:                                                                                                                                      | Fnd Station:                                                                                                                                                                                                                                             |
| Equations and Exceptions:                                                                                                                           | _ End Station: Miles                                                                                                                                                                                                                                     |
| Project/Work (Multiple Sites) Length: Feet                                                                                                          | Miles                                                                                                                                                                                                                                                    |
| Existing ROW Width: Add If yes, Acquired ROW Width:                                                                                                 | ditional ROW Required? Yes □ No □                                                                                                                                                                                                                        |
|                                                                                                                                                     |                                                                                                                                                                                                                                                          |
| Are any temporary or permanent easement                                                                                                             |                                                                                                                                                                                                                                                          |
| If yes, list type of easement(s) and how ma                                                                                                         | ny acres are needed:                                                                                                                                                                                                                                     |
| Design Speed MPH                                                                                                                                    |                                                                                                                                                                                                                                                          |
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| Design Traffic Count/ Year (10 Year):                                                                                                               |                                                                                                                                                                                                                                                          |
| Percentage of Trucks:                                                                                                                               |                                                                                                                                                                                                                                                          |
| Percentage of Trucks:<br>Estimated Cost of Improvements: \$                                                                                         |                                                                                                                                                                                                                                                          |
| The crash data for the period of                                                                                                                    | to is listed below:                                                                                                                                                                                                                                      |
| Tota                                                                                                                                                | al Crashes                                                                                                                                                                                                                                               |
| Single Vehicle Intersection Related Fatalities Class B (Minor) Injuries Dawn Crashes Dusk Crashes Night Lighted Crashes Wet Condition Crashes Other | <ul> <li>Multi-Vehicle</li> <li>Segmental</li> <li>Class A (Serious) Injuries</li> <li>Class C (Possible) Injuries</li> <li>Daylight Crashes</li> <li>Night Unlighted Crashes</li> <li>Unknown Surface Crashes</li> <li>Dry Condition Crashes</li> </ul> |

| Were there any road defects reported in any of the crashes? Yes □ No □ If yes, what was reported?                                                                                                                                                                                                                                                                                                                                          |
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| Do any of the crashes show the primary cause as road related? Yes $\square$ No $\square$ If yes, what was the cause?                                                                                                                                                                                                                                                                                                                       |
| List the location (node or between nodes) and primary cause for any crash that resulted in a fatality or Class A (incapacitating or suspected serious) injury:                                                                                                                                                                                                                                                                             |
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| Does the crash data reveal any site-specific areas that pose safety concerns that need to be addressed? Yes $\square$ $\mathrm{No}$ $\square$                                                                                                                                                                                                                                                                                              |
| If yes, state the location, safety concern, and proposed countermeasure to enhance safety in the area:                                                                                                                                                                                                                                                                                                                                     |
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| Guideline 2: Project Scope                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Are there any utilities in conflict with this project? Yes \(\sigma\) No \(\sigma\) If yes, refer to the Utilities Section of the current edition of the ALDOT's "\(\frac{Procedural}{Guidelines for Local Public Agency Projects" (\(PGLPAP\)\), for further information. Please comment below concerning how utilities will be coordinated.                                                                                              |
| Is there a railroad crossing within the project limits or adjacent to the project? Yes \( \subseteq \text{No} \subseteq \text{No} \subseteq \text{If yes, refer to the Railroad Involvement Section of the current edition of the ALDOT's "\( \text{Procedural Guidelines for Local Public Agency Projects" (PGLPAP)} \), for railroad involvement procedures. Please comment below concerning what railroad coordination will take place. |
| Comments Concerning Project Scope:                                                                                                                                                                                                                                                                                                                                                                                                         |
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| Guidelines 3&5: Lane Widths, Shoulder Widths, and Shoulder Types                                                                                                                                                                                                                                              |
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| Existing Traveled Way Width(s) (ft):  Existing Number of Lanes:  Existing Lane Width(s) (ft):  Existing Shoulder Width(s) & Type(s) (ft):                                                                                                                                                                     |
| (C&G, graded, paved)                                                                                                                                                                                                                                                                                          |
| Note: Figures <b>3-2 through 3-4</b> in the <u>LPA Road Design Policy</u> may aid the designer with definitions of widths. All shoulders shall be flushed and maintained at the width(s) determined from these guidelines. If improvements are proposed for the lanes and/or shoulders, please comment below. |
| Comments Concerning Lane Widths, Shoulder Widths, and Shoulder Types:                                                                                                                                                                                                                                         |
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| Guideline 4: Cross Slopes                                                                                                                                                                                                                                                                                     |
| Will planing, leveling, or patching be required? Yes □ No □ If yes, specify item no., description, and the reason:                                                                                                                                                                                            |
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Note: State in the section above what the required cross slope will be for the project ("match existing" or "2.0 % or e" for example).

|                                                                   | Horizontal Curva<br>orizontal Curves t                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                   |                                                               | n speed:                                                                                  |                                                 |
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|                                                                   | es mentioned abov                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                   |                                                               | •                                                                                         | ion:                                            |
| Curve #                                                           | Recommended<br>Advisory<br>Speed                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Length of<br>Curve (ft)                                                                           | Radius<br>(ft)                                                | Existing "e" (%)                                                                          | Required<br>"e" (%)                             |
|                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                   |                                                               |                                                                                           |                                                 |
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| roadway star<br>Note: Utilize<br>the <u>LP</u><br>proces<br>examp | Fit/cost analysis in adards will be cost the "Procedure for the "Procedure for the "Procedure for the "Procedure for the "Procedure" for the "Procedure" for the formula what impose the procedure for the procedu | t beneficial for<br>for Performing<br><u>icy</u> . Please do<br>what the result<br>rovements will | the curves Benefit/Cos ocument the ts of the and I be made bo | above? Yes D Net Analysis" in Gonderigh decision allows were (B/C) ased upon the research | To □ N/A □  Suideline 6 of  -making = 0.554 for |
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| Guideline 7: Vertical Curvature and                                                                                                                    | Stopping Sight Distance                                                                                            |
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| Number of vertical curves that do not                                                                                                                  | t meet the design speed:                                                                                           |
| For the curves mentioned above, (if any) what speed will they meet?                                                                                    | atMPH Sag □ Crest □atMPH Sag □ Crest □ |
| Will any of the vertical curves listed a countermeasure(s) to enhance safety If yes, please provide details below.  Comments Concerning Vertical Curva | • • • • • • • • • • • • • • • • • • • •                                                                            |
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| Guideline 8: Bridges and Culverts                                                                                                                      |                                                                                                                    |
| Are there any existing bridges within If yes, provide the following informat                                                                           | •                                                                                                                  |

| BIN | Suff.<br>Rating | Begin<br>Station | End<br>Station | Bridge<br>Length | Curb<br>to<br>Curb<br>Width | Is Structure<br>Weight<br>Restricted?<br>(Yes/No) | Are<br>Posted<br>Signs In<br>Place?<br>(Yes/No) | Is Bridge Considered To Be Narrow? (Yes/No) | * Adequate Guardrail System In Place? (Yes/No) |
|-----|-----------------|------------------|----------------|------------------|-----------------------------|---------------------------------------------------|-------------------------------------------------|---------------------------------------------|------------------------------------------------|
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- If yes, "narrow bridge" signs should be placed by contract or LPA forces.

  \* If no, list what guardrail improvements are needed (see Guidelines 10-14).

Are there any existing <u>box or bridge</u> culverts within the project limits? Yes  $\square$  No  $\square$  If yes, provide the following information, as applicable:

| BIN | Suff.<br>Rating | ♦<br>Begin<br>Station | ♦<br>End<br>Station | Skew<br>Angle | △<br>Culvert<br>Width | Is Structure<br>Weight<br>Restricted?<br>(Yes/No) | Are Posted<br>Signs In<br>Place?<br>(Yes/No) | Guardrail In<br>Place?<br>(Yes/No) | □<br>Guardrail<br>Required?<br>(Yes/No) |
|-----|-----------------|-----------------------|---------------------|---------------|-----------------------|---------------------------------------------------|----------------------------------------------|------------------------------------|-----------------------------------------|
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| <ul> <li>♦ The difference in stations here should reflect the centerline length of the structure, which does not include the outer walls (opening to opening).</li> <li>△ Measured from inside of parapets 90 degrees to centerline</li> <li>□ If yes, list what guardrail improvements are needed (see Guidelines 10-14).</li> </ul> |
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| Comments Concerning Bridge, Culvert, and Guardrail Items:                                                                                                                                                                                                                                                                             |
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# **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 (not breakaway) within the desirable clear zone? Yes $\square$ No $\square$                                                                                                                                                                                                                                                                                                                                                                          |
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| Minimum clear zone or lateral offset width proposed in project limits (ft):<br>Maximum (steepest) front slope proposed (3:1, 2:1, slope to fit, etc.)                                                                                                                                                                                                                                                                                                                                                                                                        |
| Note: It may be helpful to comment below as to the location(s) for the items above and/or provide the associated cross section sheet(s) or sketches, if available.                                                                                                                                                                                                                                                                                                                                                                                           |
| Are there any pipes within the project limits? Yes $\square$ No $\square$ If yes, are they of sufficient length and construction to cause no obstruction to traffic? Yes $\square$ No $\square$ If no, provide details of required repairs and/or extensions.                                                                                                                                                                                                                                                                                                |
| Note: If there are slopes steeper than 3:1 within the project limits, a benefit/cost analysis should be performed for slope flattening based upon Guideline 9 in the LPA Road Design Policy. The designer should refer to Guideline 14 for proposed slopes steeper than 3:1. If no widening occurs in the project, "slope to fit" may be most appropriate. Roadway pipes should be long enough to accommodate the full required roadway width with appropriate side slopes. Storm sewer/sidedrain pipes should be relocated as necessary if widening occurs. |
| Comments Concerning Side Slopes and Clear Zones:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
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| 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 $\square$ No $\square$                                                                                                                                                                                                                                                                                                                                                                                                         |
| Comments Concerning Right-of-Way Encroachments:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
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## **Guideline 16: Bicycle/Pedestrian Facilities:**

| Are there any existing pedestrian crossings within the project limits that require upgrades to be American with Disabilities Act (ADA) compliant? Yes $\square$ No $\square$ |
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| If yes, identify the crossing location(s) and required upgrades:                                                                                                             |
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| Is there any evidence of any bicycle/pedestrian activities in the project area that would warrant the addition of new facilities? Yes $\Box$ No $\Box$                       |
| If yes, describe the type and location of facilities that will be added:                                                                                                     |
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### **Guideline 17: Intersection Improvements:**

| will there be any                                        | intersection in                         | nprovements p       | erformed in             | this project? Y              | es □ No □               |
|----------------------------------------------------------|-----------------------------------------|---------------------|-------------------------|------------------------------|-------------------------|
| If yes, please com                                       | plete the appl                          | icable section(     | s) below:               |                              |                         |
| 17.1 - The Addit                                         | ion of New Tui                          | rn Lane(s) or I     | mprovemer               | nts to Existing              | Turn Lane(s)            |
| Design Speed (Side<br>Present Traffic Co                 | e Roads):<br>ount/ Year (Sid            | e Roads):           |                         | MPH                          |                         |
| Design Traffic Cou                                       | unt/ Year (10 Y                         | ear) (Side Roa      | ds):                    |                              |                         |
| Percentage of Tru<br>Existing Pavement                   | ıcks (Side Road<br>t Widths (Side I     | s):<br>Roads) (ft): |                         |                              |                         |
| Existing Shoulder                                        | Widths & Type                           |                     |                         | (C&G, gr                     | aded payed)             |
| Design Vehicle: _                                        |                                         |                     |                         | (Cuo, gi                     | aded, paved)            |
| What Road is<br>New/Improved<br>Turn Lane<br>Located On? | Location<br>(Intersecting<br>Side Road) | Lane Width<br>(ft)  | Taper<br>Length<br>(ft) | Full Width<br>Length<br>(ft) | Total<br>Length<br>(ft) |
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If no, please document the decision-making process on the following page for the proposed lengths. The designer should strive to provide as much deceleration distance as practical and the  $50^{\rm th}$  queue storage length for the design year at minimum.

| Comments Concerning Turn Lane(s):                                                                                                                                                                                                                                                                                                                                  |
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| Note: Please attach "Autoturn" and "Synchro 95 <sup>th</sup> /50 <sup>th</sup> Queue Summary" Analyses (signalized intersections only) or provide similar information to demonstrate design radii and capacity.                                                                                                                                                    |
| 17.2 - The Installation of Roundabout(s)                                                                                                                                                                                                                                                                                                                           |
| What is the main (through road) at this intersection? Posted Speed (Main Road): MPH Posted Speed (Side Roads): MPH Design Speed (Approaches) MPH Design Speed (Circulatory Roadway) MPH Does the speed limit need to be incrementally reduced to reduce speed approaching the circulatory roadway? Yes □ No □ If no, how will the speed reduction be accomplished? |
| Present Traffic Count/ Year (Side Roads):                                                                                                                                                                                                                                                                                                                          |
| Design Traffic Count/ Year (10 Year) (Side Roads):                                                                                                                                                                                                                                                                                                                 |
| Percentage of Trucks (Side Roads):                                                                                                                                                                                                                                                                                                                                 |
| Existing Pavement Widths (Side Roads) (ft):                                                                                                                                                                                                                                                                                                                        |
| Maximum speed differential between conflicting traffic streams (MPH): Approach alignment at entry points: Offset Left □ Radial □ Offset Right □ Inscribed Circle Diameter (ft): Circulatory Roadway Width (ft): Truck Apron Width (ft): Design Vehicle:                                                                                                            |

| applicable:                                                                                                                                                                                                                                                                                                                                                                          |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Minimum Sidewalk Set Back Distance from Circulatory Roadway (ft): Minimum Crosswalk Set Back Distance from Yield Line (ft): Minimum Pedestrian Refuge Width (ft): Bike Lane Type: Shared Lane Bike Lane Separated Bike Lane N/A Will cyclists traverse the roundabout with motorists? Yes No N/A I If yes above, how far from the yield line will the bicycle lane be terminated? ft |
| Will the recommended minimum leveling of lighting be provided at the roundabout per Table 5.1 (page 5-2) of the ALDOT <u>Roundabout Planning</u> , <u>Design</u> , <u>and Operations Manual</u> ? Yes $\square$ No $\square$ If no, please provide justification for not providing the recommended lighting.                                                                         |
| Will landscaping be provided at the roundabout per guidance found in Chapter 6 of the ALDOT <u>Roundabout Planning</u> , <u>Design</u> , <u>and Operations Manual</u> ? Yes $\square$ No $\square$ If no, please provide justification for not providing the recommended landscaping.                                                                                                |
| Comments Concerning Roundabout(s):                                                                                                                                                                                                                                                                                                                                                   |
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Note: Please attach the "Autoturn", Capacity, and "Fastest Path" Analyses.

#### Proposed Improvements to Enhance Safety and Reduce Crashes:

Note: These items should include work such as patching, leveling, widening, resurfacing, flushing shoulders, striping, traffic control markings, pavement markers, guardrail improvements, pipe extensions and/or repairs, intersection improvement(s) installing signs as required by the MUTCD, posting the road at the design speed and posting advisory signs as necessary, spot clearing or slope flattening to eliminate any unusual or hazardous conditions, and replacing improper mailbox supports and removing encroachments. Please provide these "scope" items in sentence form. Multiple items may be listed under one number, as space permits.

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| 15)                                                                                                                                                                                                                                   |
| tems thru will be performed by at no cost to the project, prior to project authorization. (Note: This is for items to be performed by the project sponsor. List these after items to be performed by contract.)  Additional Comments: |
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| SUBMITTED FOR | APPROVAL:                                                                                                                                                                                                            | Date: |
|---------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|
|               | LPA Representative                                                                                                                                                                                                   |       |
| Attachments:  | Location Map (Required) Autoturn Analysis (Required when app.) Synchro Analysis (Required when app.) Roundabout Capacity Analysis (Req. when app.) Fastest Path Analysis (Required when app.) Right-of-Way Map Other |       |
| APPROVED:     | State Local Transportation Engineer                                                                                                                                                                                  | Date: |