

# Approval of Design Variance

Project	Identification								
Local Agency: CITY OF COLLINSVILLE (County, Municipality, Road District / Township) Section No.: 117-I-3-2			County:	MADISON					
				MUN 007	0	***************************************			
Street/Road Name: RAMADA BOULEVARD						·····			
Project L	_imits:RAMADA BL\	VD. FROM IL 15	7 TO BEVERLY	LANE			***************************************		
						****			
Project L	_ength:458 ' (0.09 M		Functional Classification: LOCAL ROAD						
Design Y	Year: 2043			Design Traffic: ☐ DHV ☐ ADT 7800					
Existing	Structure No.: N/A			Proposed Structure No.: N/A					
Project :	Scope of Work								
a.	Is this project located on the NHS?						Yes	⊠ No	
b.	Is this project on a Strategic Regional Arterial (SRA) route?						Yes	⊠ No	
C.	Funding	☐ MFT/State	Assistance	☐ Fede	eral				
d.	Type of Work	☐ New Const	ruction	⊠ Rec	onstruction	[	] 3R		
e.	Design Guidelines	⊠ Urban	☐ Suburban	☐ Rura	al 🗆 3	3R [	] Other	***************************************	
f.	Provide a brief project	description (ma	jor construction e	elements):					
The proposed realignment of Beverly Lane would modify the existing intersection of Ramada Blvd. and Beverly Lane into a 3-leg unsignalized intersection with an east leg instead of a south leg. The proposed stop-controlled east leg is anticipated to have an exclusive thru lane and a shared thru/right turn lane and the southbound left turns will be prohibited. The proposed stop-controlled north leg is expected to have an exclusive right turn lane. The west leg will not be stop controlled.  The proposed improvement will include earthworks, full-depth pavement removal and construction, concrete curb and gutter construction, sidewalk/ ramp construction, inlets and storm sewer installations.									
District (	Coordination Meeting	s							
Has project been previously discussed at district coordination m			t coordination me	eetings?		⊠ Ye	es	□ No	
(If yes, attach minutes of variance approvals)						Dates	: 2/23/2	3, 6/29/23	

#### Level One Design Variance Approval

Local Agency: CITY OF COLLINSVILLE	Section No.:	_117-I-3	-2	***************************************
Design Criteria for Project (Provide numerical value where indicated)	BLR&S Criteria	Varia Yes	nce N	Summary of Variance and Justification
1. Design Speed: 30 mph	30 mph		$\boxtimes$	Fig 32-2G
	D			
	<u> </u>			Fig 32-2G
<ul> <li>a. Through Lanes: 12 feet</li> <li>b. Turn Lanes: <u>11</u> feet</li> <li>c. Parking Lanes: N/A feet</li> </ul>	10'; 30' (f-f)			Fig 32-2G; Surface width of 28' (f-f) at Ramada Blvd.(North) and 25'(f-f) at Beverly Lane. Existing condition is improved.
d. Bike Lanes: N/A feet			$\square$	
<ol> <li>Through Travel Lane Cross Slopes         Inside Lane: Max. 2 %         Outside Lane: %         (if more than 2 lanes)     </li> </ol>	1.5%-2%			Fig 32-2G
5. Shoulder Widths: N/A feet	N/A			
Horizontal Curvature (Minimum Radius)     250 feet     List curves not meeting criteria	324	×	О	Fig 29-4A
<u>Sta.</u> <u>Radius</u> <u>Design Speed</u> 204+01.01 250 25 mph				Fig 29-4A; The vehicle is travelling in a reverse curve and reaching a stop at the intersection so the vehicle speed would be slow.  Meets 25 mph policy.
7. Superelevation Rates  emax N.C. %	N.C.		⊠	Fig 29-4A
List curves for which <b>e</b> does not meet criteria  PI Sta. Radius <u>e</u> Design Speed				
8. Maximum Grade: <u>5.0</u> %	11.0 %		$\boxtimes$	Fig 32-3C
9. Minimum Intersection Sight Distance feet List locations not meeting the criteria Cross Road Distance	335'		⊠ □	Fig 28-3E
10. Minimum Stopping Sight Distance feet	200'		⊠	Fig 28-1A

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		List curves r	urves - Min. K value not meeting the criteria	annananananananananananananananananana				
<u>VPI S</u>	<u>Sta.</u> <u>Sig</u>	ht Distance	<u>Design Speed</u>	Curve Length				
	b. Sag		ves – Min. K value ot meeting the criteria		37	⊠		Fig 30-2D
<u>VPI S</u>	<u>Sta.</u> <u>Sic</u>	tht Distance	Design Speed	Curve Length				Fig 30-2D
500+	c. Insi		30 ontal Curves	100.00	20	⊠		Fig 30-2D. Satisfies Policy for comfort-criteria curve.
<u>Sta</u>		List curves n	ot meeting the criteria  Design Speed	<u>Radius</u>				
11. Clear Roadway Bridge Widths:			N/A					
12.	Freeboai	rd Above De	esign High Water:		N/A			
13. Vertical Clearances:  Over Roadway/RR feet Under Structure feet			N/A N/A					
14.			for Disabled Person not meeting ADA Criter		N/A			
15.	a. Tan b. Out	e Clear Zon gent 1.5 side of Curv List o	feet /e riteria for each radius	Zone (ft)	1.5' N/A			BLRS CH 35-2.02(f)
16.	Intersect	ion(s) Level	of Service: B		D			Fig 32-2G
17.			gns or Signals					1.19 02 20
17.		oss Road		<u>rrant</u>				
18.	Pavemer	nt Design (li	st any variance to p	olicy)				

#### Level One Design Variance Approval

Local Agency: CITY OF COLLINSVILLE	Section No.:	117-1-3-2			
<ul> <li>Other Items</li> <li>Design of Sidewalks Width <u>0</u> ft</li> <li>Minimum ROW from EOP 6' along north side of Ramada Blvd.</li> </ul>	Accommodation		Fig 32-2G; No sidewalk along Ramada east due to ROW and design constraints.		
Prepared By: Oates Associates,	Inc		20/00/0005		
r repared by.		Date: _0	09/02/2025		
When Prepared by Consultant Local Agency Concurrence:	Consultant)	Date:	9/8/2025		
IDOT Regional Engineer Concurrence Date	Cei	ntral BLR&S Approv	al Date		

#### **Level Two Design Variance Approval**

Local Agency: CITY OF COLLINSVILLE Section No.: 117-I-3-2 Design Criteria for Project BLR&S Variance Summary of Variance (Provide numerical value where indicated) and Justification Criteria Yes No Design Period: 20 years П X Fig 32-2G 1. 20 years 2. Horizontal Alignment (Mainline) a. Minimum Superelevation Transition Lengths: N/A feet b. Superelevation Distribution Between 2/3:1/3 П Tangent and Curve: Vertical Alignment (Mainline) 3. a. Minimum Grade of Urban Cross  $\boxtimes$ Section 0.8 % 0.3% BLRS CH 30-2.01(b)  $\boxtimes$ b. Minimum Length of Vertical Curves 90 feet 90' Fig 30-2D П  $\boxtimes$ Maximum K value of Vertical Curves 47 Fig 30-2D 167 (for curbed facilities) Cross Section Elements (Mainline) a. Design of Parking Lanes Cross Slope: N/A  $\boxtimes$ b. Design of Sidewalks Width: Buffer Distance: N/A feet 2 feet Cross Slope: N/A % 2% max. Longitudinal Grades: N/A % 5% max. c. Median • Type: Raised Raised  $\boxtimes$ BLRS CH 35-1.05(b) · Width: 5 feet 4  $\boxtimes$ d. Shoulder Cross Slopes: N/A e. Rollover Factor % N/A B 6.12  $\boxtimes$ Fig 32-2G, Match f. Curb and Gutter Type B 6.24 Existing B 6.18 Fig 32-2G, Match Existing Roadway Element Steepest Front Slopes: \_\_ (H:V) Fig 32-2G · Steepest Back Slopes: Fig 32-2G (H:V)Drainage (Flood Frequency) 5. N/A a. Pavement: \_\_\_\_\_ years b. Structure: years П X c. Storm Sewer: 10 years 10 DM 1-305 Intersections a. Level of Service for Individual Movement: D  $\boxtimes$ • Through Lanes: B Fig 32-2G Turn Lanes:  $\boxtimes$ b. Skew Angle: 30 degrees BLRS CH 34-1.01(b) 3 Degrees

### **Level Two Design Variance Approval**

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c. Approach Grades: 5.0 % Ramada Blvd. (EW)	4 %	$\boxtimes$		BLRS CH 34-1.02.		
1.5 – 6.5% Beverly Lane (NS)				Storage Platform grades exceeds maximum to match steep topography.		
d. Design Vehicle: <u>SU</u>	su		$\boxtimes$	Fig 34-1G		
e. Turning Radius for Design Vehicle:						
f. Minimum Corner Island Size:						
g. Minimum Turn Lane Length feet  • Approach Taper: feet  • Departure Taper: feet  • Bay Taper: feet						
h. Entrances  Entrance Type Max. Width (ft.) Min. Width (ft.) Max. Grade(%)						
Commercial         35'         25'         10%           Residential	24' -35'			Fig 41-2A		
7. RR Crossings						
a. Type of Railroad Protection:						
	N/A					
b. Crossing Width (at 90° angle) feet	N/A					
8. Lighting						
a. Illuminance lux	N/A					
b. Uniformity Ratio	N/A					
9. Other Items						
<ul> <li>Turning speed from EB Ramada Blvd. to SB Beverely Ln -10 mph</li> </ul>	30mph			Fig 32-2G; 90 degrees turn movement.		
<ul> <li>Turning speed from NB Beverly Ln to WB Ramada Blvd 15 mph</li> </ul>	30 mph	⊠		Fig 32-2G; 90 degrees turn movement.		
<ul> <li>Stop Bar on SB Ramada Blvd. North is 36' from nearest EOP.</li> </ul>	30'	⊠		MUTCD 3B.16		
Entrance Radius extends beyond property line projection.	Within property line	×		Matches Existing condition		
Prepared By: Oates Associates, Inc Designer (Local Agency or Consultant)  When Prepared by Consultant Local Agency Concurrence:  Date: 09/02/2025  Date: Date:						
IDOT Regional Engineer Concurrence Date	***************************************	Central BLR&S	Annroyal	Date		
120 i negional Engineer Concurrence Date	,	SOLITION DELLOS	~bbioagi	Date		