



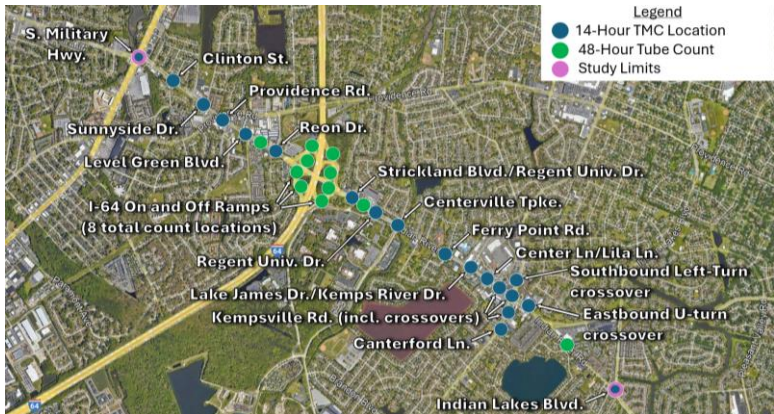
PROJECT PIPELINE NEEDS AND EXISTING CONDITIONS SUMMARY

Indian River Road

VDOT District: Hampton Roads / Locality: Virginia Beach

HR-25-01

Sheet 1 of 2



Study Purpose, Goals, and Objectives

To analyze the operational and safety issues identified within the study area of Indian River Road from S. Military Highway to Indian Lakes Boulevard due to numerous residential and retail shopping areas. The focus is on providing enhanced bicycle and transit access, transportation demand management, safety improvements, and congestion mitigation.

VTrans Needs

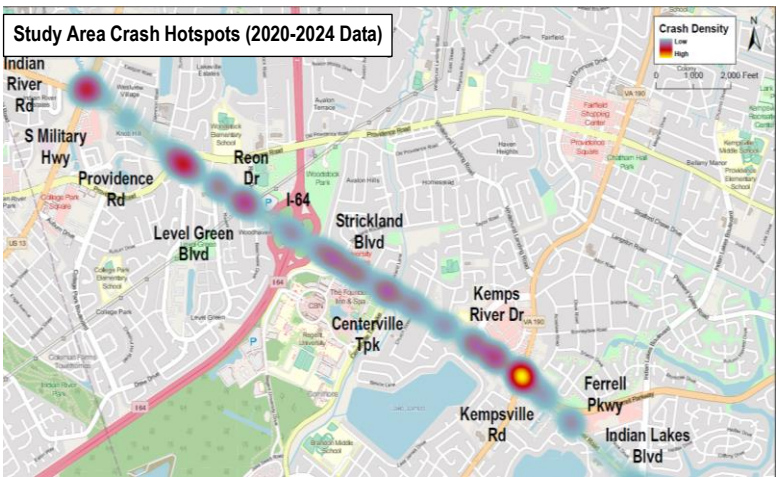
	Congestion Mitigation
	Bicycle Access
	Transit Access
	Safety Improvement
	Pedestrian Safety Improvement
	Transportation Demand Management (TDM)
	Pedestrian Access

Study Facts

Major Study Intersections	19
Length of Study Area	3.4 mile(s)
Classification	Other Principal Arterial / Minor Arterial
[Year] AADT (Average Annual Daily Traffic)	[2023] 57,995
Speed Limit	45 mph

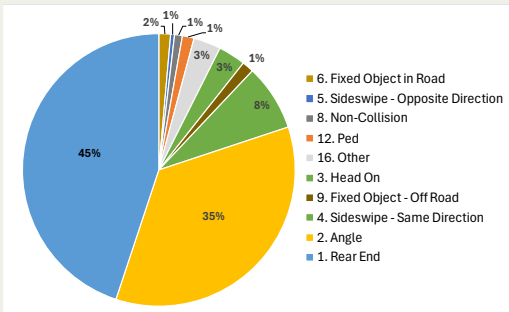
Safety Needs

- From the year 2020-2024, 995 crashes have occurred within the study area of Indian River Road between S. Military Highway and Indian Lakes Boulevard.
- Four fatal crashes along the corridor during study period.
- Kempsville Road at Indian River Road had the most intersection crashes within the study limits (161 crashes).
- The two most recurring crash type were rear end and angle crashes throughout the study area.
- 12 pedestrian crashes occurred between 2020-2024.



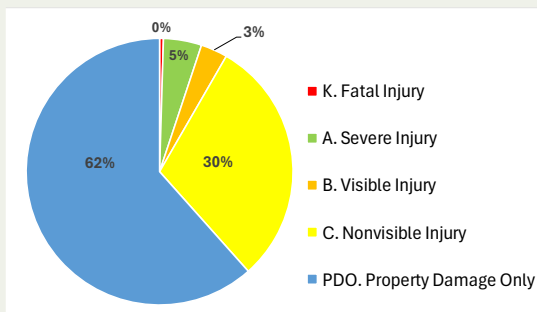
Crash Type

995 Total Crashes (2020 – 2024)



Crash Severity

995 Total Crashes (2020 – 2024)





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Sheet 2 of 2

Operations Summary

- Heavy congestion throughout the study area on Indian River Road during the AM and PM peak hours.
- The queuing on Indian River Road traveling eastbound in the PM peak hour backed up to adjacent intersections from the I-64 interchange to Kempsville Road.
- Operation concerns with the signalized intersection of Indian River Road at S. Military Highway as it is failing overall, in the AM and the PM peak hours.

Summary of Needs Identified Through Public Outreach

- Survey date: May 14– May 30, 2024.
- Number of participants: 1,284.
- Highest ranked needs: Congestion Mitigation, Safety Improvements, Transportation Demand Management (TDM), and Pedestrian Safety Improvements.
- Mode(s) of travel: Personal vehicle (99%), walking (10%), cycling (9%).
- Sudden stopping/rear-end crashes, Difficulty Weaving/merging, Speeding/aggressive driving were identified by participants as the greatest safety issues.

Bike and Pedestrian Access Needs

- High bike access VTRANS priority along Indian River Road.
- No bike facilities within study area, except a sidewalk throughout multiple segments of Indian River Road.
- Over 10 pedestrian crashes during the last five years.
- Multiple segments throughout Indian River Road are in the top 1% and top 5% of VDOT Pedestrian Safety Action Plan (PSAP) priority corridors.

Transit and TDM Needs

- There are five transit services that run through the study area. The shelters and stops were observed to be in good condition.
- Lack of transit access along Indian River Road between S. Military Highway and Level Green Boulevard as well as between Kempsville Road and Indian Lakes Boulevard.



Transit Stops and Routes within the Study Area

Proposed Solutions to Evaluate in Phase 2



Operations/Safety Improvements

- | | | |
|----------------------------|-------------------------------|------------|
| ① Modified Conventional | ③ Partial Displaced Left Turn | ⑤ Thru Cut |
| ② Full Displaced Left Turn | ④ Partial Median U-Turn | ⑥ Bow-Tie |

* Two different “Modified Conventional” alternatives will be analyzed.