Welcome to the Southeast Sussex Study Public Workshop

- ➤ This meeting is in a hybrid format (In-Person and Virtual).
- ➤ We will begin promptly at 4:00 PM.
- ➤ We will record in-person attendees using sign-in sheet. If attending virtually, please add your name to the chat box (e-mail address optional).
- > The virtual meeting portion will be recorded.
- > Virtual attendees will be muted by default when they enter the virtual room.



SOUTHEAST SUSS







Public Workshop June 14, 2022

Virtual Attendees: How to ask questions



- ➤ During the session, please type all questions and comments in the Q&A box, which you can access by clicking on the icon at the bottom of your screen.
- ➤ We will pause at certain points during the presentation to answer questions. You may raise your hand to ask a question verbally by clicking Raise Hand at the bottom of your screen.
- > Presenters will repeat the question and respond verbally.
- ➤ If you cannot use the Q&A or the Raise Hand function, please e-mail questions to <u>Jennifer.Cinelli@delaware.gov</u> at any time during or after this session.

DelDOT Mission

Excellence in Transportation trans

Every Trip.

We strive to make every trip taken in Delaware safe, reliable and convenient for people and commerce.

Every Mode.

We provide safe choices fro travelers in Delaware to access roads, rails, buses, airways, waterways, bike trails, and walking paths.

Every Dollar.

We seek the best value for every dollar spent for the benefit of all.

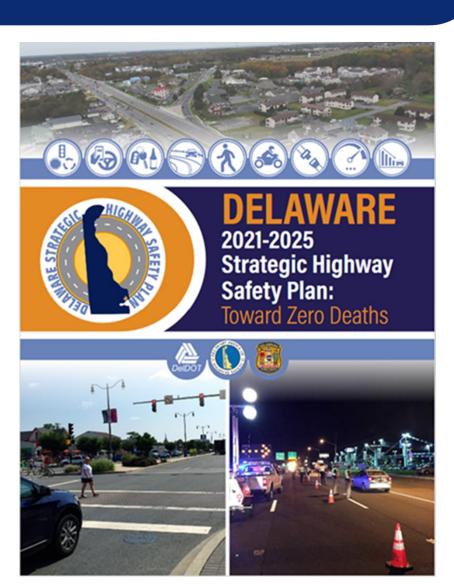
Everyone.

We engage our customers and employees with respect and courtesy as we deliver our services.



SAFETY MOMENT

Delaware Traffic Fatalities							
as of 6/9/2022							
	2022	2021			2020		
		Year-to-Date		Totals	Year-to-Date Totals		
Fatalities	65	47	1 38%	139	39	★ 67%	117
Delaware Residents	49	37	★ 32%	49	34	1 44%	96
Person Types							
Vehicle Occupant	44	28	1 57%	83	24	1 83%	75
Pedestrian	12	8	★ 50%	30	9	1 33%	25
Bicyclist	1	0	♠ N/A	2	0	♠ N/A	3
Motorcyclist	8	11	₽ -27%	24	6	1 33%	14
Crash Types							
Curve Related	9	8	13 %	23	4	125 %	19
Roadway Departure	24	22	1 9%	59	16	1 50%	47
Intersection Related	24	15	1 60%	53	13	1 85%	32
Median Crossover	3	2	1 50%	7	1	1 200%	3
Wrong Way	2	0	♠ N/A	0	0	↑ N/A	1
Work Zone	0	1	↓ -100%	8	1	♣ -100%	3



Agenda

- Why this Study?
 - Context/Background
- What are we finding?
 - Summary of Ongoing Technical Assessments and Findings
- What is next?
 - Overview of Next Steps



Why this study?

Study area and vicinity growing quickly

- Sussex County is the fastest growing county in DE
- Summer congestion continues to be an issue
- More year-round trips adding to non-summer peak period congestion
- Study initiated due to HOA and legislatures bringing concerns to DelDOT

Growing congestion leads to other issues

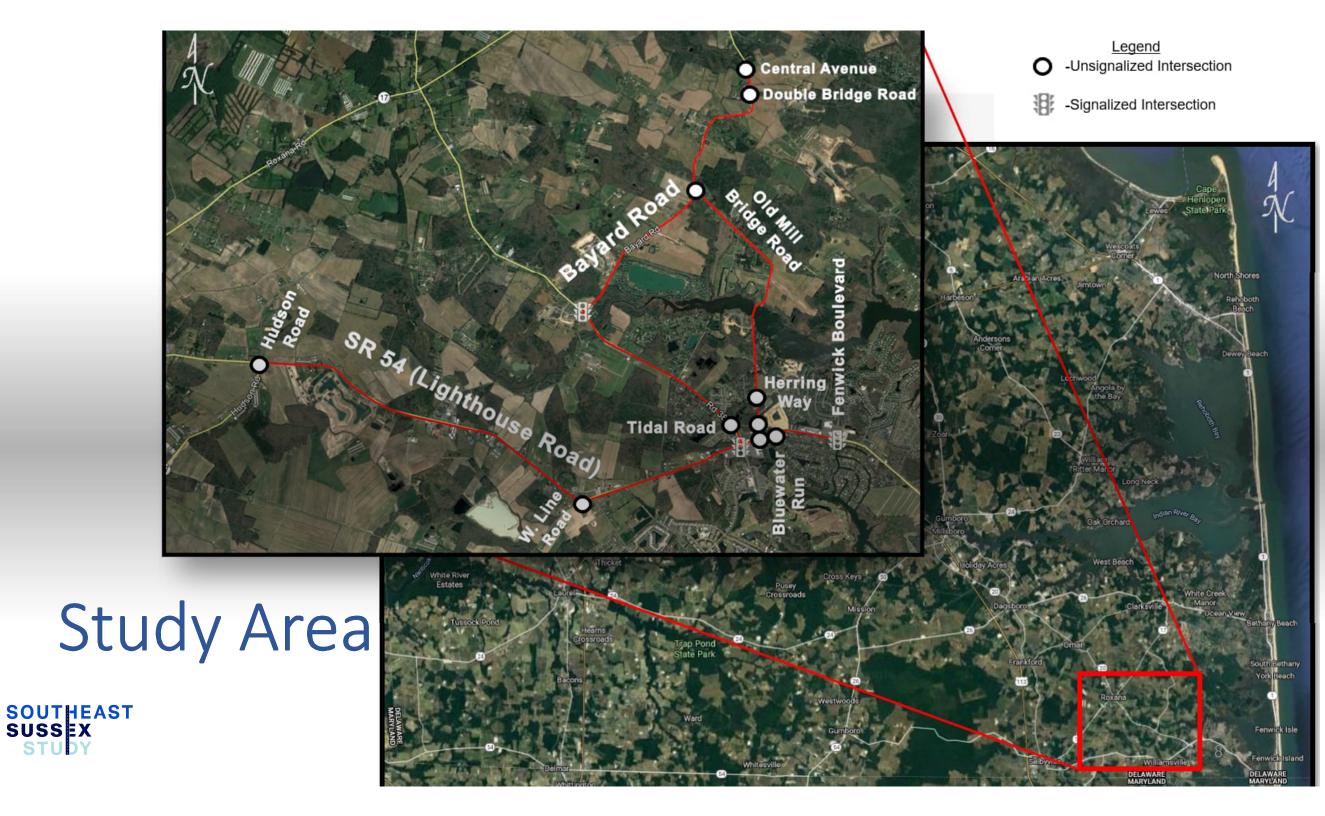
- Traffic using alternative routes through neighborhoods
- Multimodal safety concerns focus of recent SR54 Study
- Quality of life impacts feedback from area residents, stakeholders and elected officials

Need to understand and plan for required improvements

- Based on both current and anticipated future needs
- Understand potential for TID establishment







Study Area

Study Roadway Segments

- SR 54 (Lighthouse Road) between W. Fenwick Blvd. and Hudson Road
- SR 20 between SR 54 and Bayard Road
- Bayard Road between SR 20 and Central Avenue
- Old Mill Bridge Road between Bayard Road and SR 54

Study Roadway Intersections

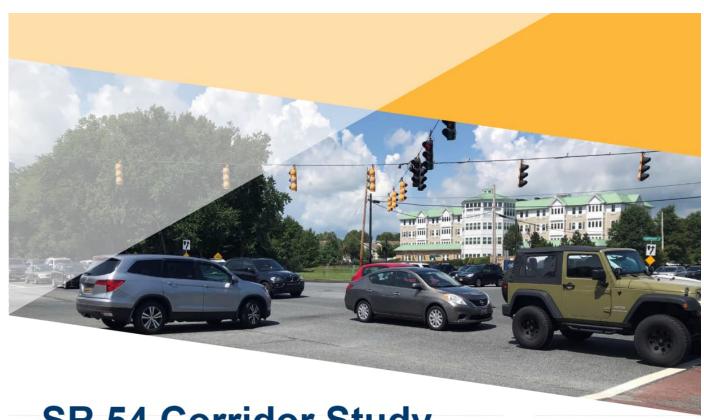
- SR 54 (Lighthouse Road) and Hudson Road
- SR 54 (Lighthouse Road) and W. Line Road
- SR 54 (Lighthouse Road) and SR 20 (Signalized)
- SR 54 (Lighthouse Road) and Old Mill Bridge Road
- SR 54 (Lighthouse Road) and W. Bluewater Run
- SR 54 (Lighthouse Road) and W. Fenwick Blvd (Signalized)
- SR 20 and Tidal Road
- SR 20 and Bayard Road (Signalized)
- Bayard Road and Central Avenue
- Bayard Road and Double Bridge Road
- Bayard Road and Old Mill Bridge Road
- Old Mill Bridge Road and Herring Way
- Old Mill Bridge Road and Tidal Road



Recent SR54 Corridor Study -Context

- Focused on multimodal safety
- Study Recommendations
 - Pedestrian safety upgrades
 - Lighting between SR 20 and Bluewater Run
 - Adjust signal timings and offsets
 - Transit improvements to close gaps
 - Sidewalk/side path and Complete Street projects to close gaps
- Southeast Sussex Study will connect above safety considerations with operational improvements needs





SR 54 Corridor Study

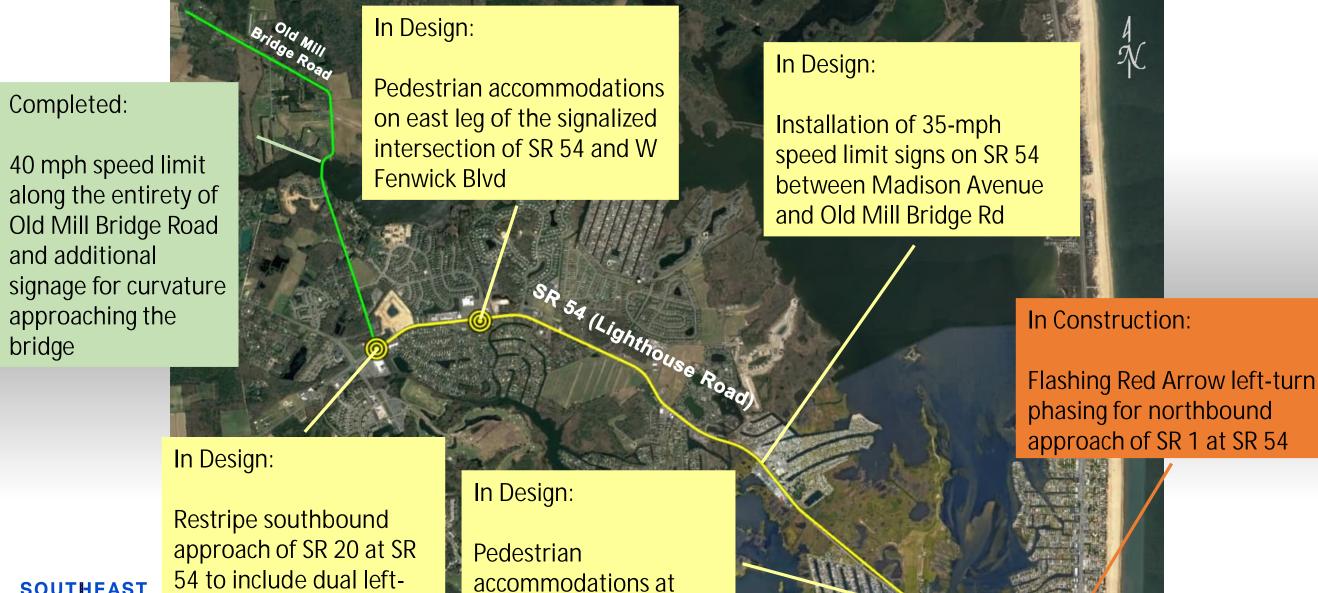
SR 1 to SR 20/Americana Parkway in Sussex County, Delaware

May 2021



https://deldot.gov/Programs/DSHSP/index.shtml?dc=project-pedestrian-safety-audit

Recent and Planned Improvements



signalized intersection

of SR 54 at Dukes Rd



turn lanes to eastbound

SR 54

Technical Assessments











Traffic Counts – Compilation/Collection

 Intersection Turning Movement Counts



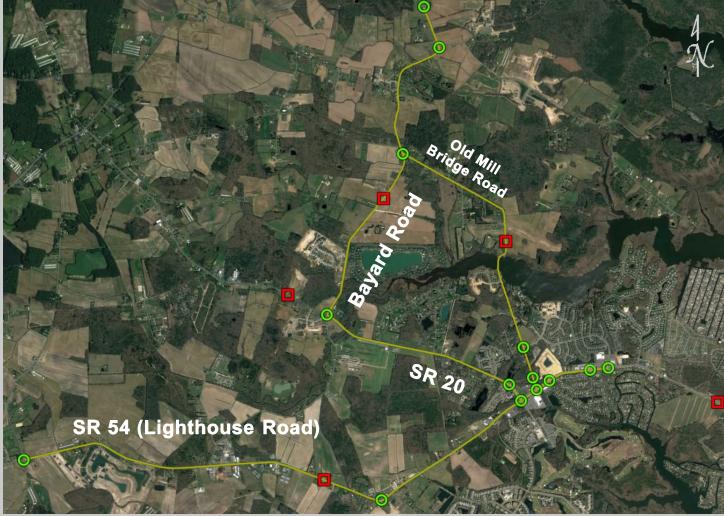
Automatic Traffic Recorder (ATR)
 Counts



- Traffic Count Periods
 - Weekday PM Peak Period
 - Summer Saturday Mid-day Peak Period







Traffic Counts – Comparison

Current volumes in context to prepandemic traffic trends

Key Findings:

- Traffic volumes generally returning to pre-pandemic levels
- Traffic peak hours are slightly shifting although peak volumes are comparable

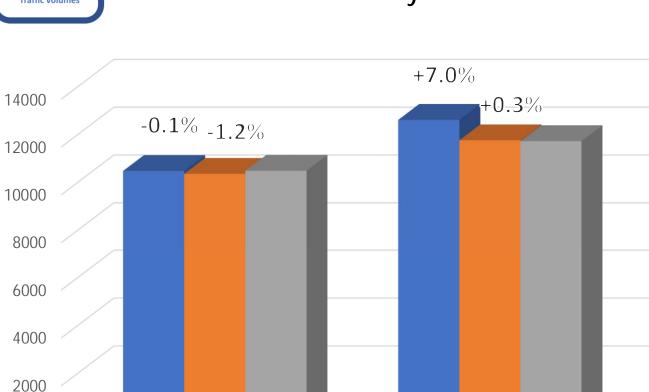




Average Daily Traffic Comparison SR 54 west of Bayville Shores Dr

Saturday Midday

■ August 12 & 14, 2021



■ August 15 & 17, 2019

Thursday Weekday PM

■ August 8 & 10, 2019

Questions?

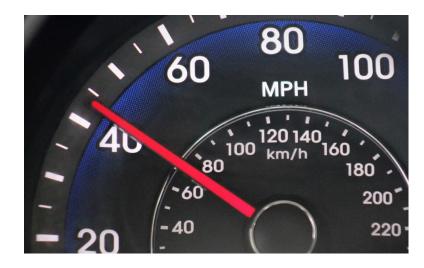




Existing Speed Study

- Speed Data Collection
 - Using ATRs along SR54 and SR20
 - Validation using actual directional travel time runs
- Speed Study Periods
 - Weekday PM Peak
 - Summer Saturday Mid-Day Peak



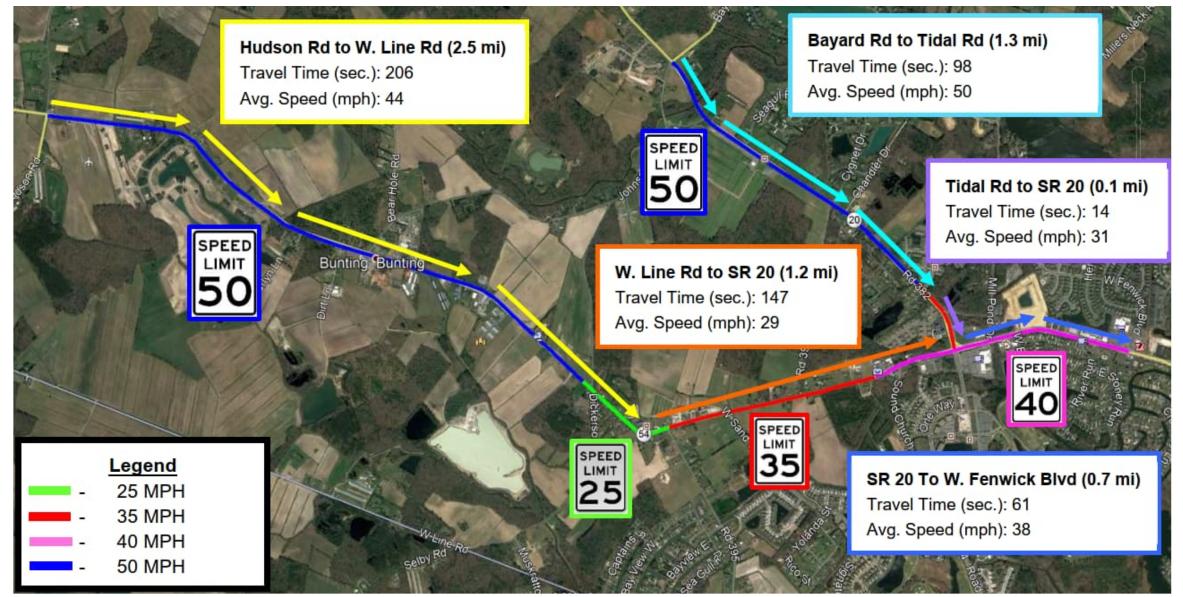


Key Findings:

- Generally, traffic is observed to flow through the study area at speeds slightly less than the posted speeds (no apparent speeding issues)
- Average speeds are significantly lower than speed limits on SR 54 east of SR 20 and along SR 20 southbound between Tidal Rd and SR 54 (congestion related speed drops)

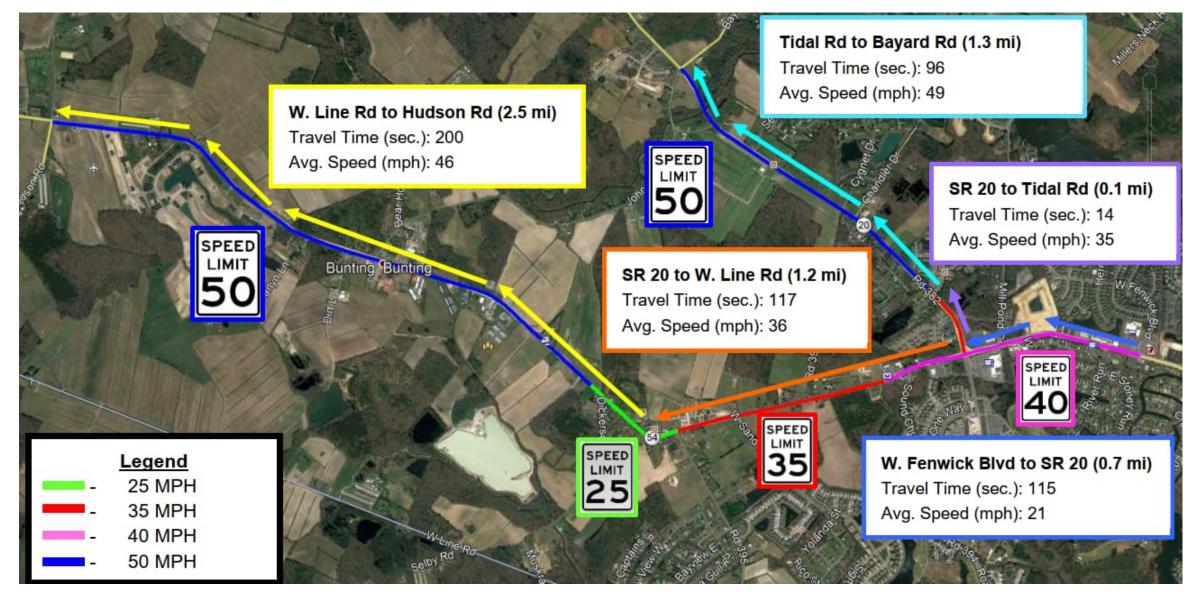














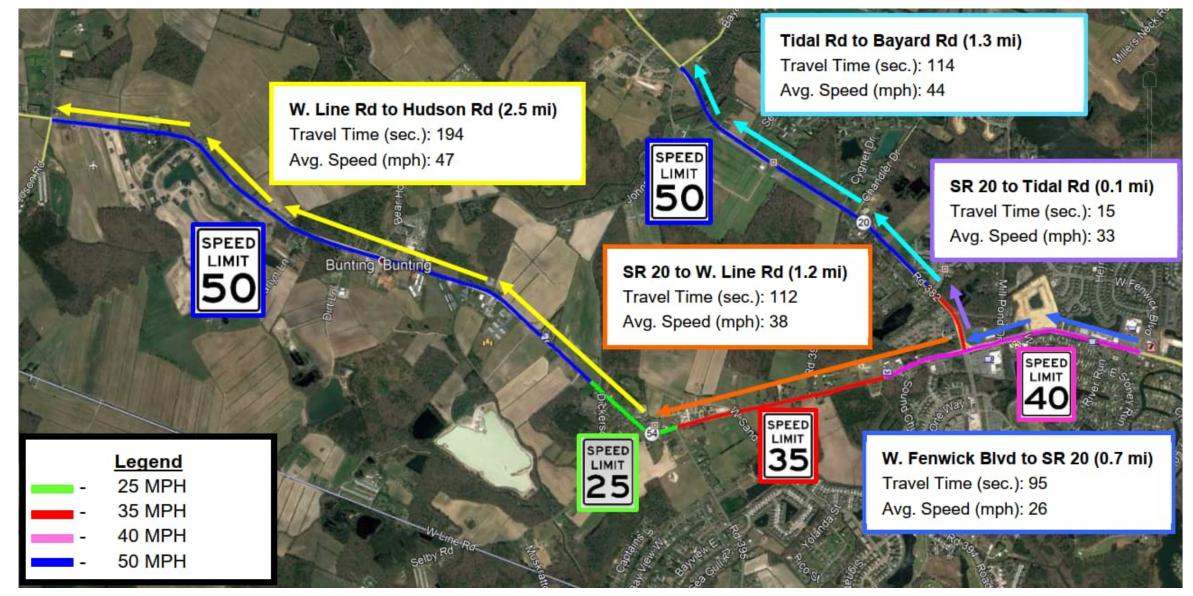






Travel Time Runs – Summer Saturday Mid-Day Peak







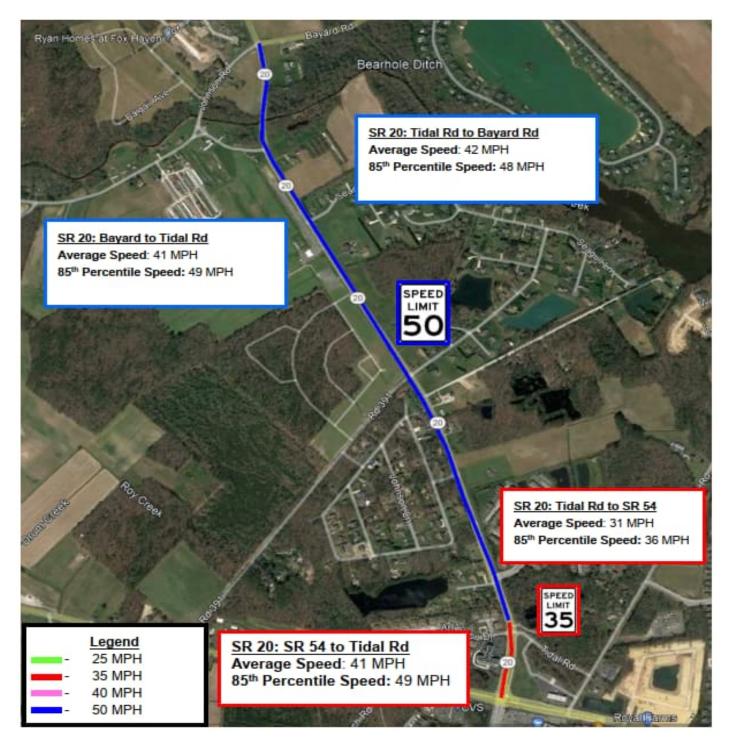
Travel Time Runs – Summer Saturday Mid-Day Peak











Questions?

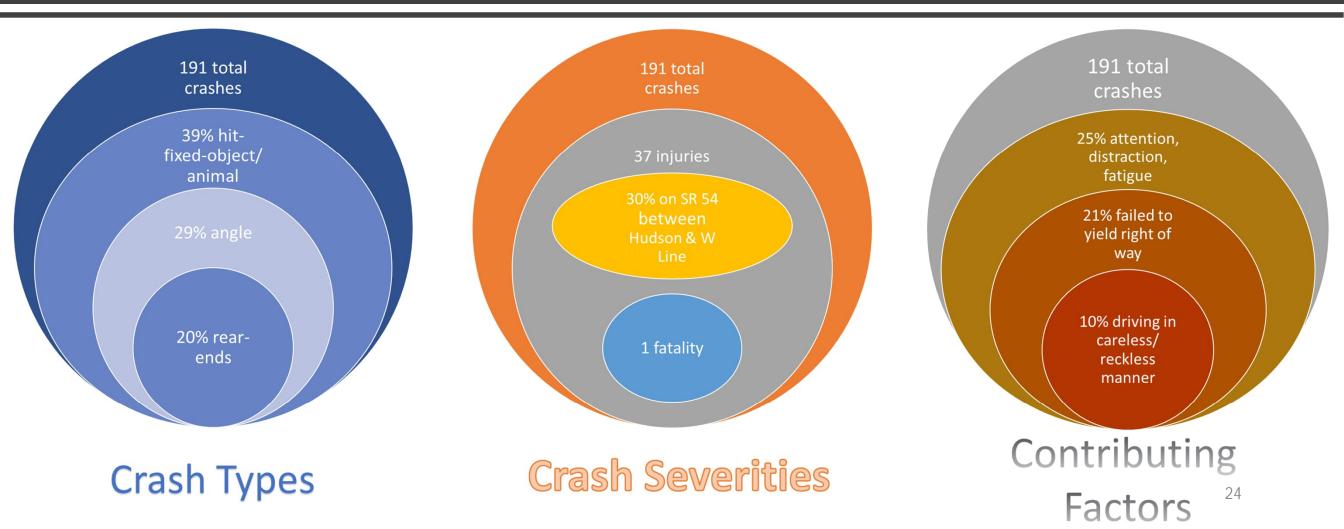






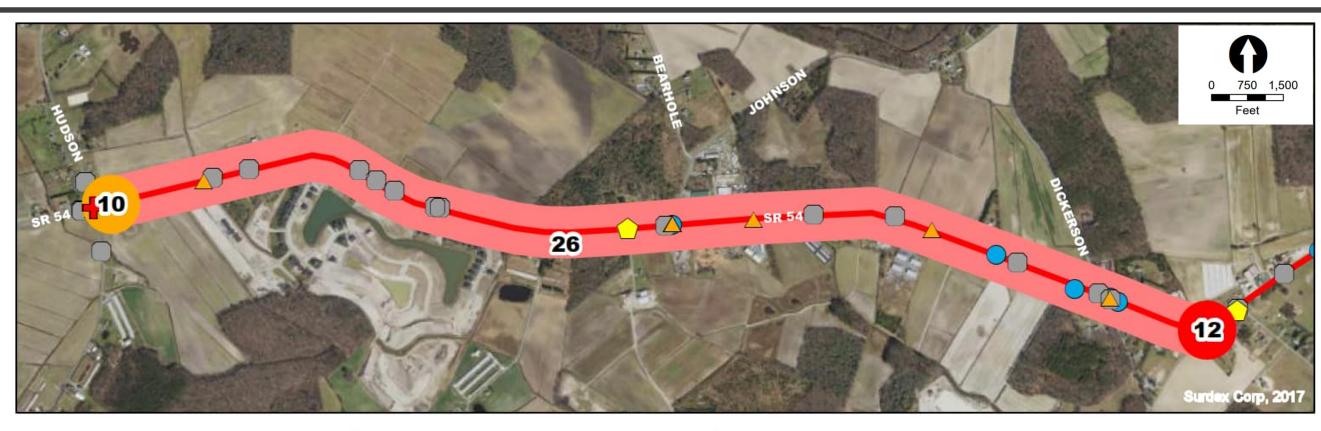
Recent Crash Data Summary

Data Period – 3-Year: Jan 2018 to Dec 2020





SR 54 Between Hudson Rd & W. Line Rd





Fatality

Rear End

d

Sideswipe; opposite direction

Angle

Hit Fixed Object / Animal

Sideswipe; same direction

Head On 🍵 Other



SR 54 Between W. Line Rd & SR 20





Fatality

Rear End

Sideswipe; opposite direction



Angle

Hit Fixed Object / Animal



Sideswipe; same direction



Head On





SR 54 SR 20 & W. Fenwick Blvd





Fatality

Rear End

Other

Sideswipe; opposite direction

Angle

Hit Fixed Object / Animal

Sideswipe; same direction

Head On



SR 20 Between Bayard Rd & SR 54





Fatality

Rear End

ear End

Sideswipe; opposite direction

Angle

Hit Fixed Object / Animal

Sideswipe; same direction

Head On 🍵 Other



Bayard Rd Between SR 20 & Central Ave





Fatality

Rear End

Sideswipe; opposite direction

Angle

Hit Fixed Object / Animal

Sideswipe; same direction

Head On 🍵 Other



Old Mill Bridge Rd Between Bayard Rd & SR 54





♣ Fatality
Angle

Rear End

♦

Sideswipe; opposite direction

Hit Fixed Object / Animal

Sideswipe; same direction

Head On 🍁 Other

Questions?





Existing Conditions Analysis – Level of Service

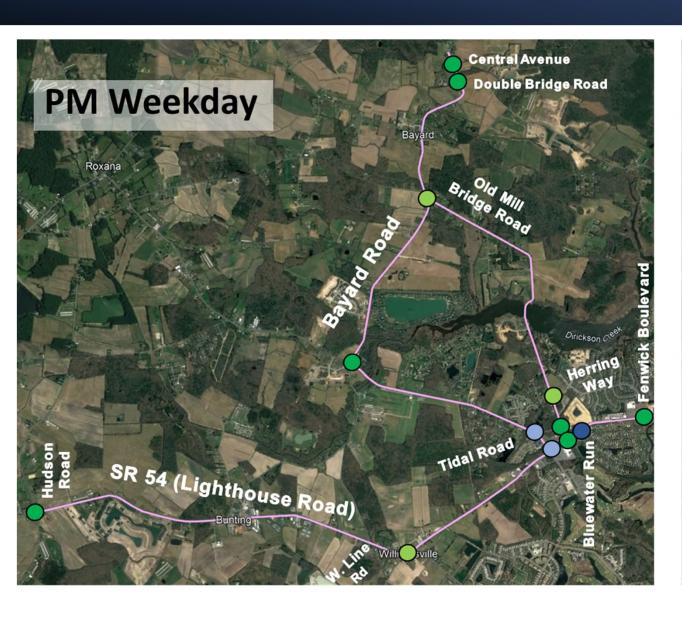


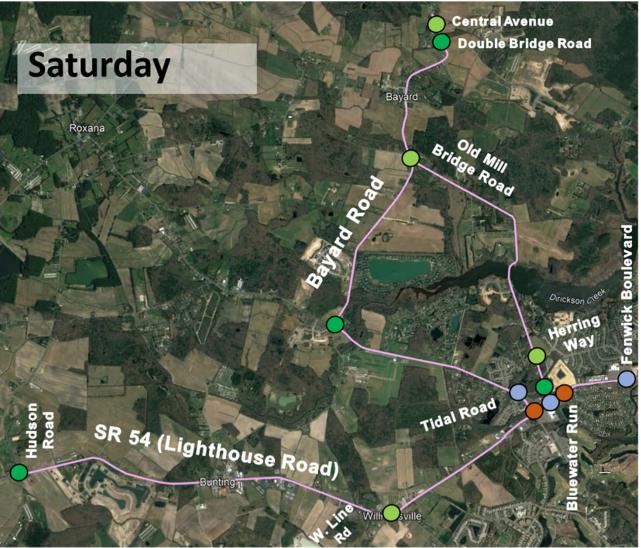
Level of Service



Existing Conditions Analysis – Intersection Level of Service (LOS)







Questions?





Existing Conditions – Recap









Traffic Volumes

➤ Post-pandemic volumes are close to pre-pandemic levels

Speed Study

- > Generally, 85th percentile observed speeds and recommended speed limits close to posted speed limits
- > Lower average travel speeds approaching intersection of SR 54 and SR 20 indicate congestion hot spot

Crash Assessment

Crash data indicate driver inattention as the predominant contributing factor; some geometric issues and peak hour congestion also contribute to crash occurrences

Intersection Performance

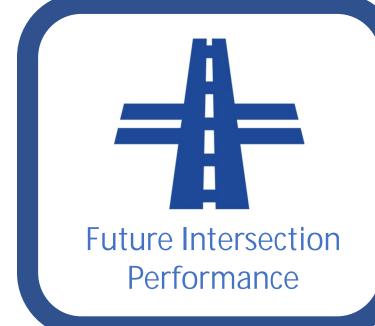
- ➤ Weekday PM: All study intersections currently operate at acceptable LOS
- > Saturday Midday: Eleven study intersection operate at acceptable LOS while two operate at an unacceptable LOS



Next Steps







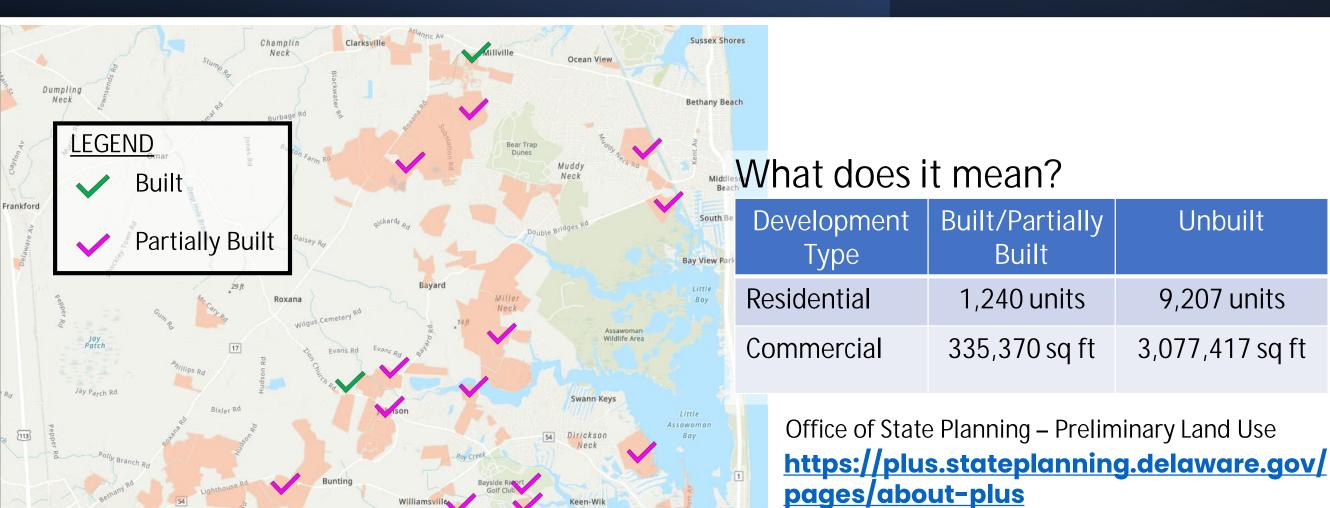




Next Steps – Growth Projections PLUS Development Review

SOUTHEAST





Fenwick Island

Next Steps -Tentative Timeline



Goal: (with your help) Develop short, medium, and long-term improvements that are going to enhance safety and operations through the study corridors and intersections.



Questions?