STANTON AVENUE TRAFFIC SAFETY

Pittsburgh Department of Mobility and Infrastructure

Traffic Bureau

June 16, 2021

Volume & Speed Overview: 2018-2019

- Approx project length– 1.00 Mile
- Road width–36 ft.
- Parking both side most of the corridor
- Truck Traffic– 5%-9%

Notes-
- Collector road and major connection for the community.
- Fire station and main emergency response route.
- High truck traffic.
- Transit; Route-87.
- Transit; school bus
- Single vehicle trip dominated community-68%.
- 40% of the generated trips<3 mile

A Volume-4,016.
85th Speed-37 MPH

B Volume-6,087.
85th Speed-35 MPH

C Volume-6,267.
85th Speed- 34 MPH
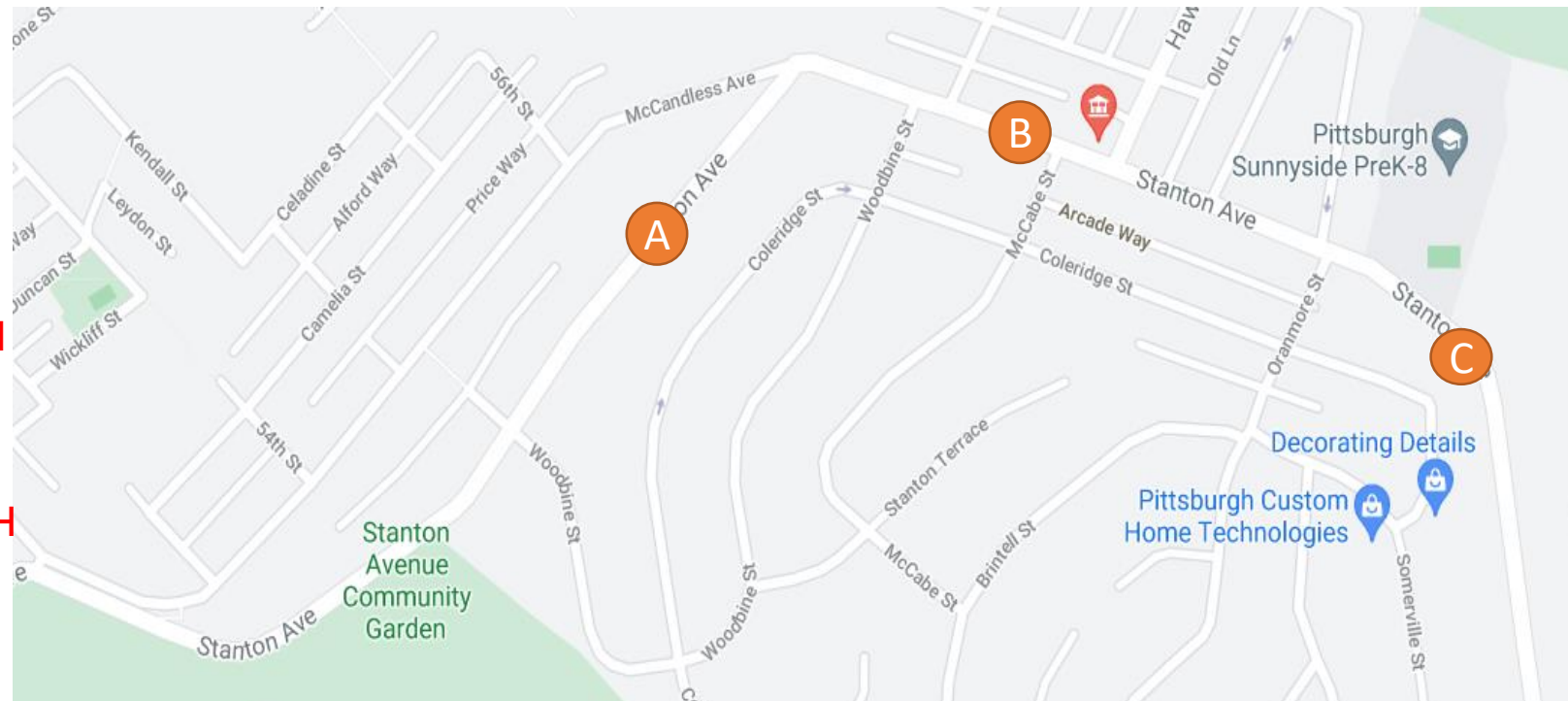
Crash Information overview-2015-2020

Crash Severity By Year

Crash Severity	2015	2016	2017	2018	2019	2020	Grand Total
Injury/ Unknown Severity	1	1					2
Not injured/PDO	7	7	5	3	2	6	30
Possible Injury	1	1	1		1		4
Suspected Minor Injury		2				2	4
Suspected Serious Injury						1	1
Unknown					1		1
Grand Total	9	11	6	3	4	9	42

(YEAR spans columns 2015–2020)

Crash Type By Lighting Condition

Crash Type	Dark - no street lights	Dark - street lights	Dawn	Daylight	Grand Total
Angle		4		3	7
Head-on	1	1			2
Hit fixed object		7	1	8	16
Rear-end		6			6
Rear-to-rear (Backing)				1	1
Sideswipe (Opposite dir.)		2		3	5
Sideswipe (same dir.)		4		1	5
Grand Total	1	24	1	16	42

(Light Condition spans the four condition columns)

Crash By Weather and Road Condition

Road Condition	Clear	Other	Rain	Sleet or Hail	Snow	Grand Total
Dry	28					28
Ice/ Frost		1	2	1	2	6
Slush				1	1	2
Wet	1		5			6
(blank)						0
Grand Total	29	1	7	2	3	42

(Weather Condition spans Clear, Other, Rain, Sleet or Hail, Snow)

*No Ped-Bike Incident

Land use-R1D-L-SINGLE-UNIT DETACHED RESIDENTIAL LOW DENSITY &
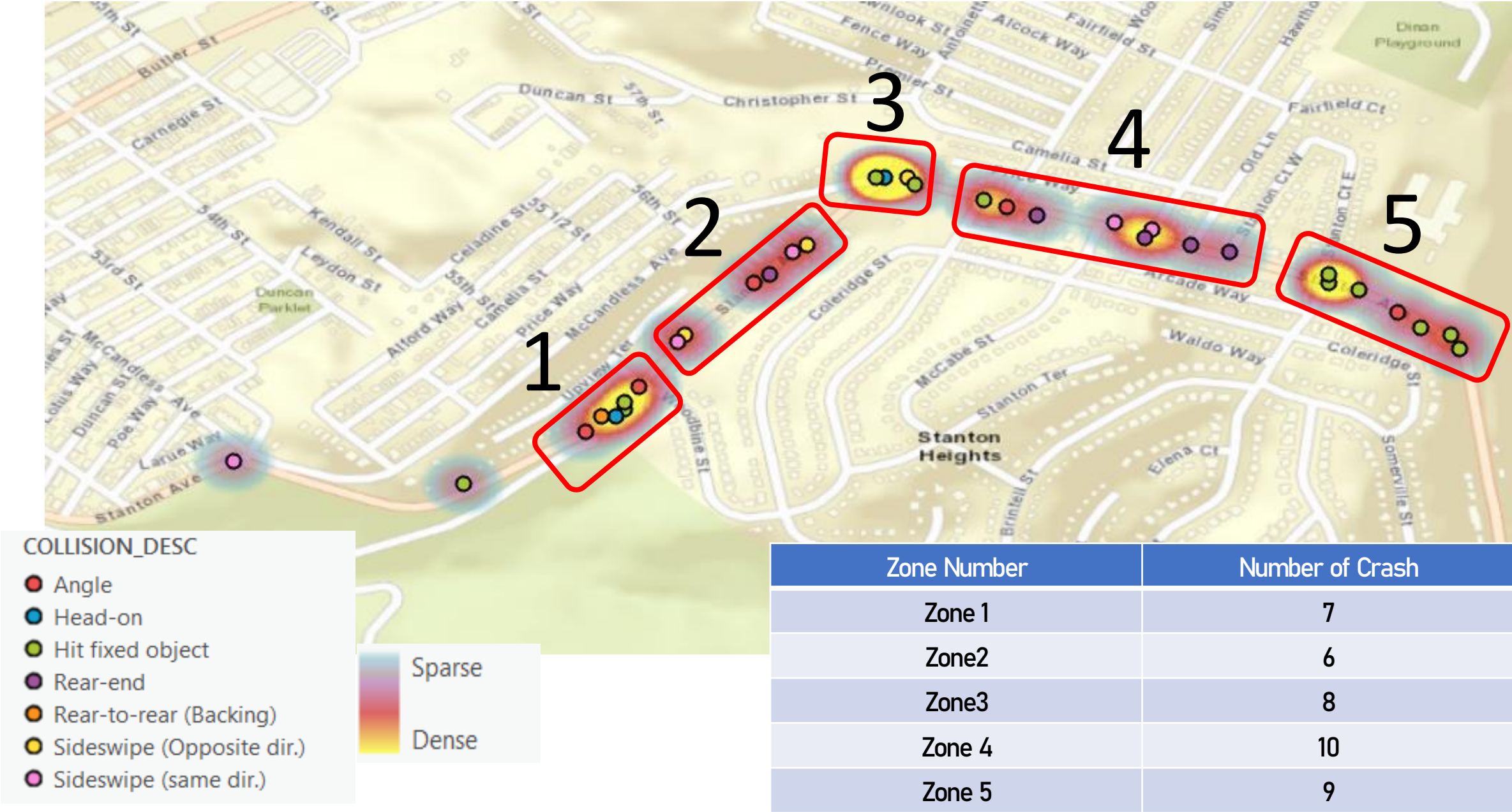Single block on right-Woodbrine to mcCabe- R2-L TWO-UNIT RESIDENTIAL LOW
DENSITY

Crash By Month

Month	Number of Crash
January	6
February	3
March	2
April	4
May	3
June	4
July	4
August	2
September	3
October	1
November	3
December	7
Grand Total	42

Notes-
- Recent year crash uptick.
- Low severe crash number.
- Speeding induced night time crash. Visibility/curves might be a factor.
- Crash month and crash type also support the claim.
- No significant weather or road impact.
- No close destination location and low ped bike accommodation. Bike use high.

Spatial Analysis of the corridor with Collision Type

COLLISION_DESC
- 🔴 Angle
- 🔵 Head-on
- 🟢 Hit fixed object
- 🟣 Rear-end
- 🟠 Rear-to-rear (Backing)
- 🟡 Sideswipe (Opposite dir.)
- 🩷 Sideswipe (same dir.)

Sparse

Dense

Zone Number	Number of Crash
Zone 1	7
Zone2	6
Zone3	8
Zone 4	10
Zone 5	9

Zone 1

Crash type-Hit fixed object 2 ,Angle 2,Head on 1, Rear to Rear backing 1.

Possible issues-

- Road curvature along with Grade

- Speeding

- Dense residential curb cuts

- Absence of intersection Daylighting

Possible Improvements-

- Enhanced curve delineation-Reflective chevron

- Transverse (in lane) pavement markings before and at the curve

- Intersection daylighting

- Curb extension on Woodbrine St. intersection along with new Hi Viz Crosswalk

- Parking lane delineator line or white edge line for better night time visibility.

COLLISION_DESC
- ⬤ Angle
- ⬤ Head-on
- ⬤ Hit fixed object
- ⬤ Rear-end
- ⬤ Rear-to-rear (Backing)
- ⬤ Sideswipe (Opposite dir.)
- ⬤ Sideswipe (same dir.)

Zone 2

Crash type- Sideswipe same dir 2, Sideswipe opp. Dir 2, Rear end 1, Angle 1. of 6 ,(4) of them in dark with streetlight condition.

Possible issues-

- Lack of park lane & travel lane delineation
- Lighting

Possible Improvements-

- Parking lane delineator line or white edge line for better night time visibility
- Choker/Lateral shift effect with parking lane or curb extension
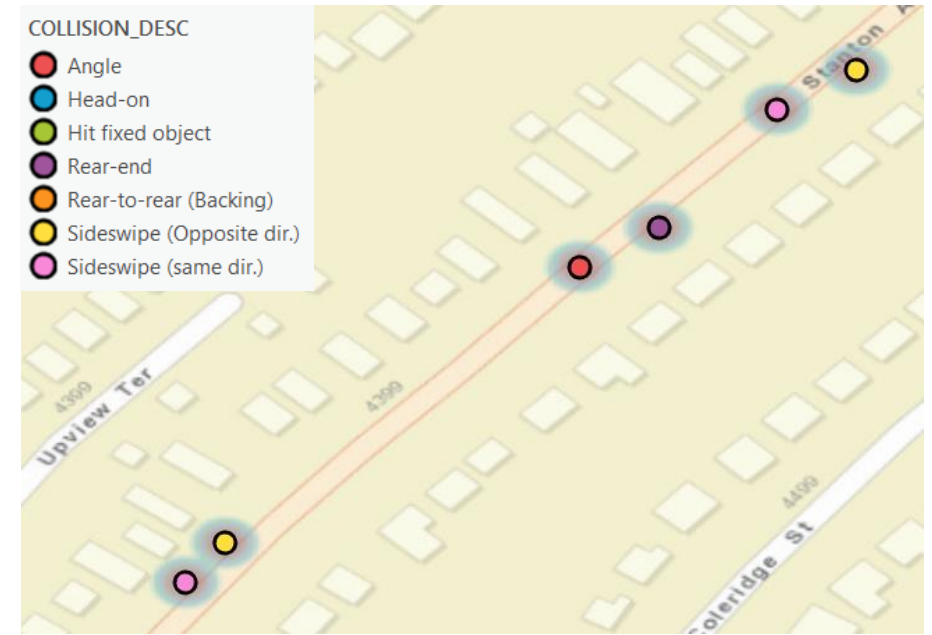
Zone 3

Crash type-Hit fixed object 3 , Sideswipe opp. Dir- 3, Head on 1
Rear End 1

Possible issues-

- Vegetation induced lack of sight clearance
- "Y" intersection geometry
- Narrow two way (19-20 ft) McCandless with high on Street parking
- Grade

Possible Improvements-

- Vegetation clearance in McCanless-Stanton intersection
- Enhanced curve delineation-Reflective chevron
- Transverse (in lane) pavement markings before and at the curve
- Make "McCanldess-Stanton ave" intersection all Way stop controlled
- Intersection daylighting

Zone 4

Crash type

- 4 rear end
- 2 hit fixed object
- 2 Angle
- 2 Sideswipe Same dir.
- 8 out of 10 Dark night time crash.

Possible issues–

- Lack of parking and travel lane delineation.
- Speeding.
- Dense residential curb cuts.
- Absence of intersection Daylighting.

Possible Improvements–

- Intersection daylighting.
- Parking lane delineator line or white edge line for better night time visibility.
- Transverse rumble strips.
- Painted/physical median between Woodbine St. intersection, Have bus stop both side.
- Painted/Physical Pinch point between Hawthrone St. & Old Ln. Already No "on street parking" zone.

Zone 5

Crash type–Hit fixed object 7 ,Angle 2,.

Possible issues–

- Road curvature along with Grade.
- Speeding.

Possible Improvements–

- Consider On street parking restriction (At least school time) and daylighting in front of the school.
- At curve Hill removal/vegetation clearance for better sight Distance.

COLLISION_DESC
- Angle
- Head-on
- Hit fixed object
- Rear-end
- Rear-to-rear (Backing)
- Sideswipe (Opposite dir.)
- Sideswipe (same dir.)