

**FREEPORT VILLAGE
CORRIDOR INITIATIVE**

Main & Bow Intersection Trial Project

Town Council Update

**Town Council
October 7, 2025**

Bow & Main

The Vision



Circa 2022

**FREEPORT VILLAGE
CORRIDOR INITIATIVE**

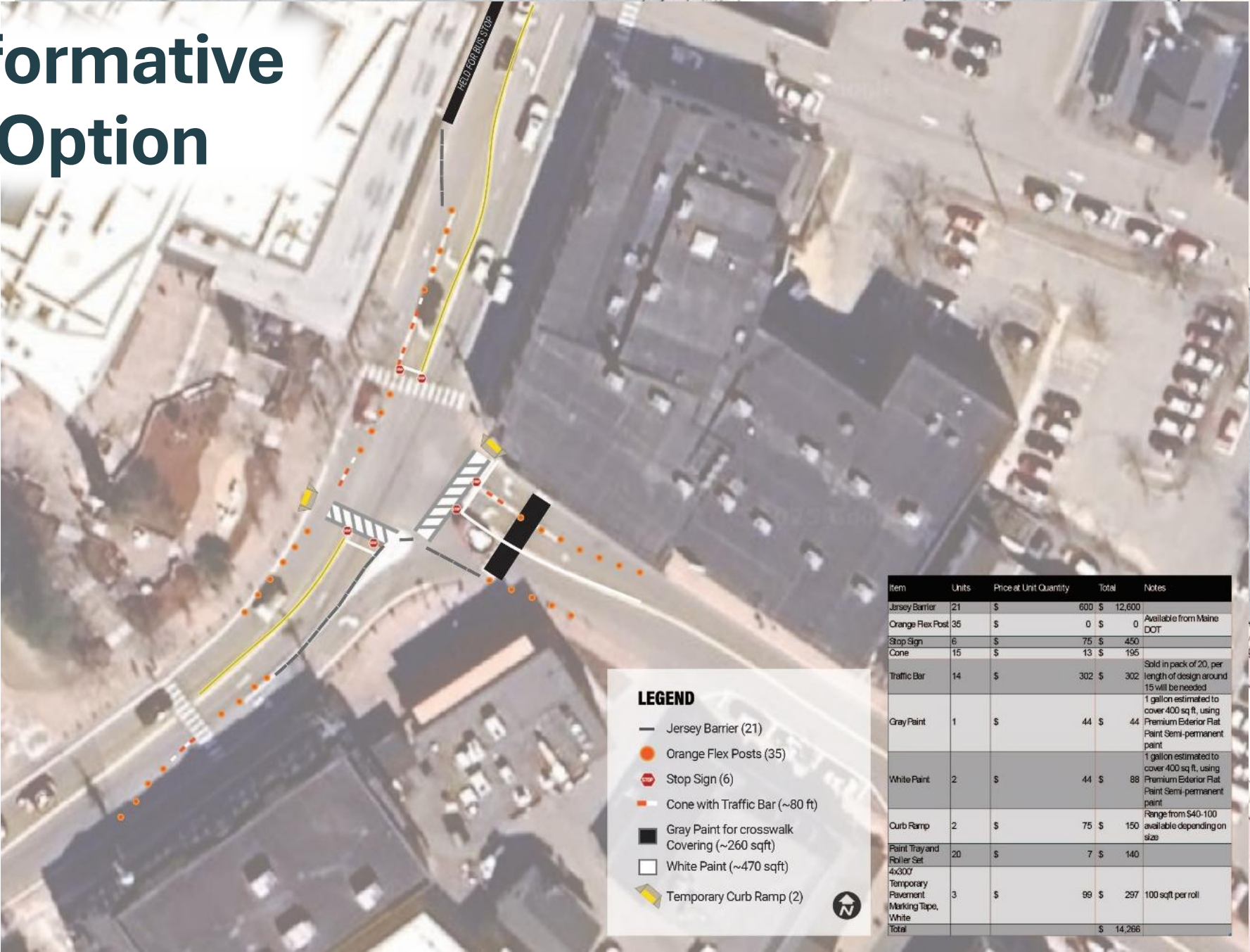


July 2025

MAIN & BOW STREETS FREEPORT, ME 07.03.25 J. SPECK FAIRSP 0 10 20 30 40 50

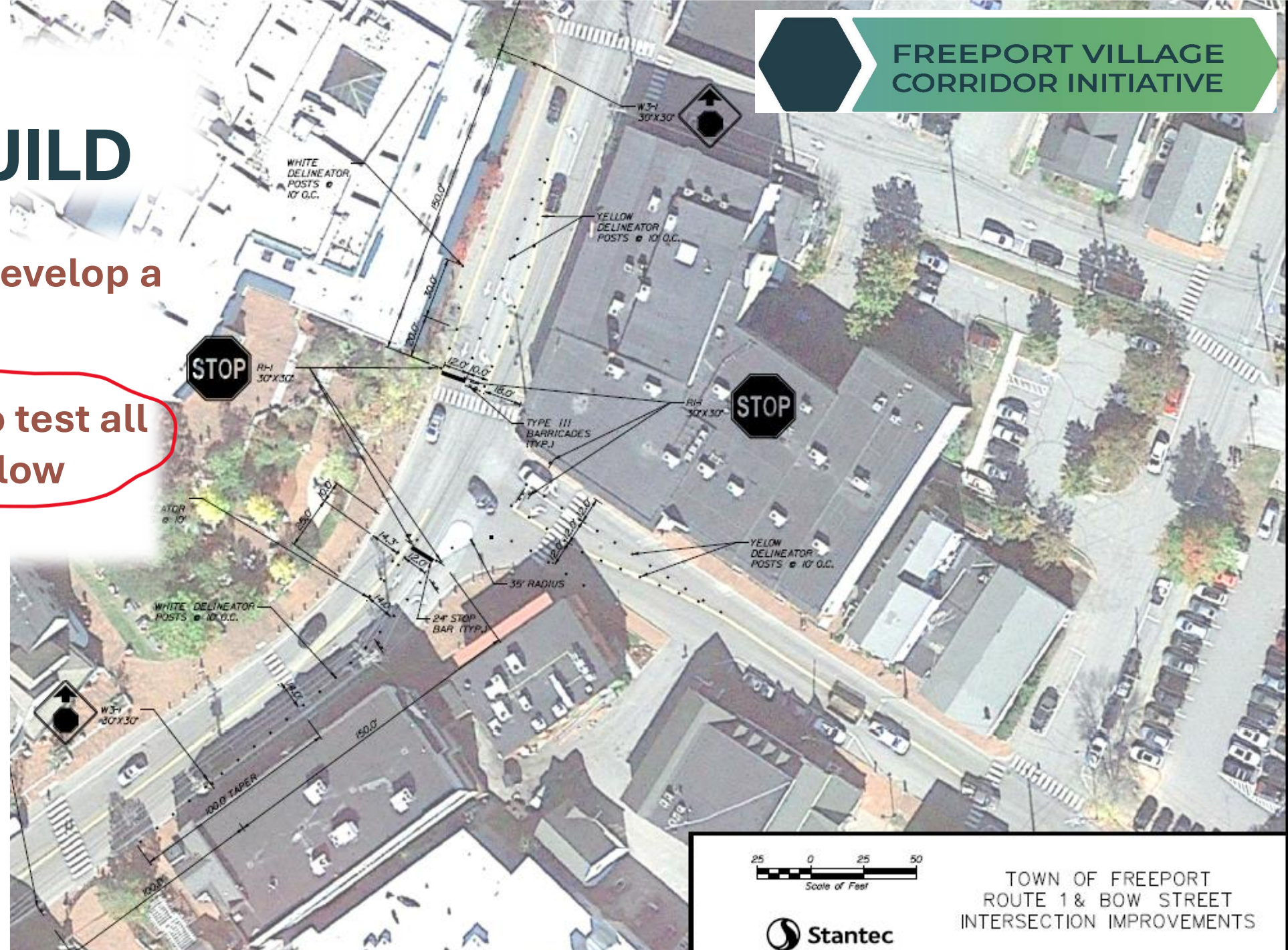
Option 1: Transformative Demonstration Option

Deemed too complex for brief Fall trial



Option 2: QUICK BUILD

- Staff tasked to develop a “build option”
- An experiment to test all way stop traffic flow



Key Data Points to Understand Trial Performance

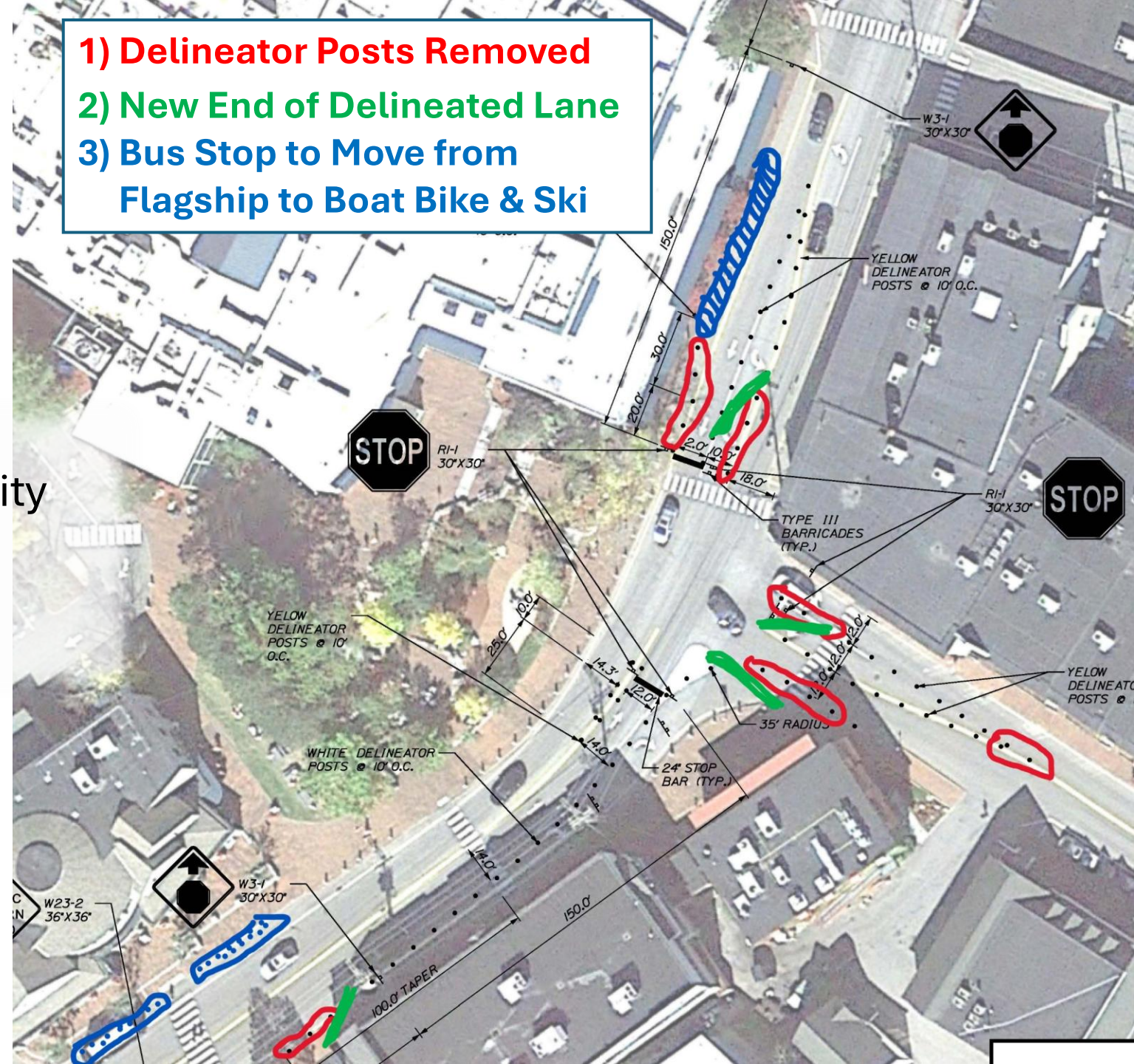
Does an all-way stop work for traffic flow?

To answer this question, Town staff gathered pre-trial baseline data in late August with a primary focus on car queues.

Car queue refers to the number of cars that are backed up in a line at the intersection, and the frequency of short queues of 2 cars to 3 cars, or longer queues of 4 to 5 cars.

Quick Build Issues & Adjustments

- Turning Radius for large vehicles
- Visual Clutter & Pedestrian visibility
- Public Safety access & passage
- Bus parking



Pre-Trial Data Collection Methodology

| | |
|---------------------------|---|
| Duration per Count | 45 minutes total |
| | 15 minutes each observing 1) Bow St; 2) Rte 1 Northbound; 3) Rte 1 Southbound |
| | |
| Data Collected | 1) Number of pedestrian crossings |
| | 2) Number of vehicles making a left hand turn |
| | |
| | 3) Instances of 2 vehicle queue |
| | 4) Instances of 3 vehicle queue |
| | 5) Instances of 4 vehicle queue |
| | 6) Instances of 5 vehicles or more |

Data Summary Comparison

PRE

| Time Slot | Avg Traffic Interruptions / 15 min interval | | | Avg Vehicle Queue / 15 min interval | | | |
|-----------|---|-----------|-------|-------------------------------------|-------|-------|-------|
| | Pedestrian Cross Event | Left Turn | Total | 2 Car | 3 Car | 4 Car | 5 Car |
| 11am | 17.9 | 19.0 | 36.9 | 3.0 | 1.3 | 0.5 | 0.3 |
| 2pm | 29.1 | 16.3 | 45.4 | 4.5 | 2.8 | 1.8 | 0.5 |
| 3pm* | 27.1 | 17.1 | 44.2 | 5.4 | 2.6 | 1.1 | 0.5 |

POST

| Time Slot | Avg Traffic Interruptions / 15 min interval | | | Avg Vehicle Queue / 15 min interval | | | |
|-----------|---|-----------|-------|-------------------------------------|-------|-------|-------|
| | Pedestrian Cross Event | Left Turn | Total | 2 Car | 3 Car | 4 Car | 5 Car |
| 11am | 16.3 | 10.27 | 26.5 | 7.1 | 3.3 | 1.5 | 2.2 |
| 3pm | 15.3 | 12.1 | 27.3 | 7.9 | 4.7 | 2.4 | 2.0 |
| Festival | 46.0 | 8.0 | 54.0 | 8.2 | 5.5 | 3.2 | 3.0 |

Findings

- All way stop did not significantly degrade traffic flow
 - There were real design issues in the “hybrid quick build” were addressed and can be eliminated in future designs
 - Large vehicle turning radius
 - Location of pedestrian crosswalks
 - Visual “clutter” creating confusion
 - Public Safety vehicle access
 - Tour and Breez Bus stop access and flow
 - Flow from Bow onto Main dramatically improved
 - Trials take a lot of staff time and effort
 - We have learned as much as we can learn from this trial
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