

Study Review Committee Meeting #2

CASSELTON ND HWY 18 CORRIDOR STUDY

Friday, May 15, 2026

Introductions

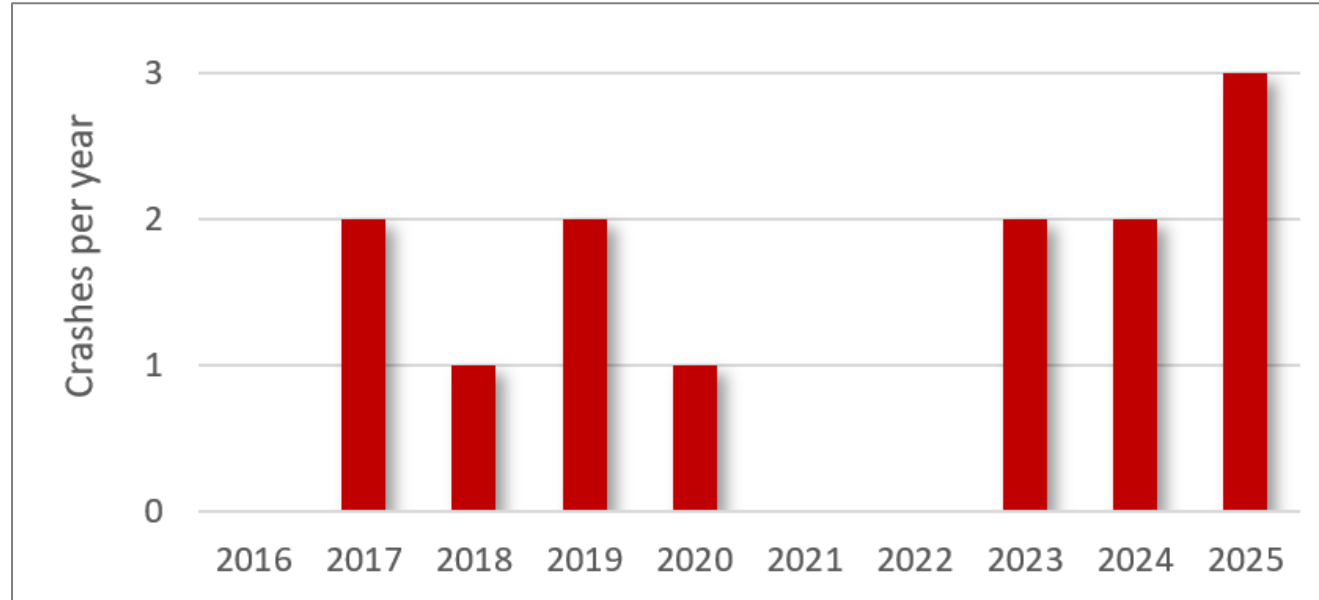
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Existing Conditions

Existing Conditions - Crashes



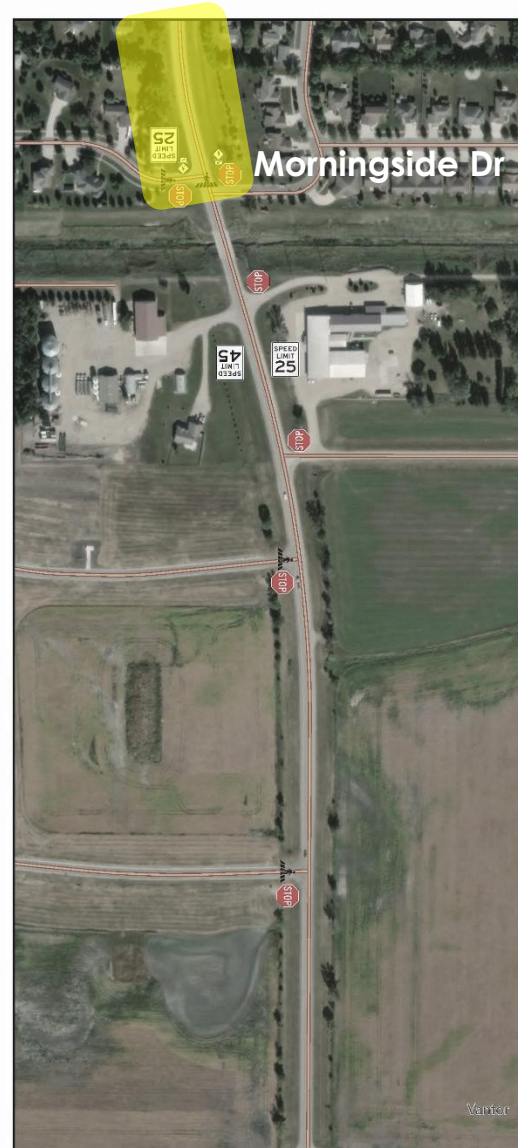
Existing Conditions - Crashes



Crash Severity	Crashes
Fatality	0
Serious injury	0
Minor injury	1
Possible injury	2
Property damage only	10

Year	Crashes
Run off the road	5
Intersection angle crashes	3
Rear-end	3
Head-on	1
Sideswipe (hit parked car)	1

Existing Conditions – Lighting



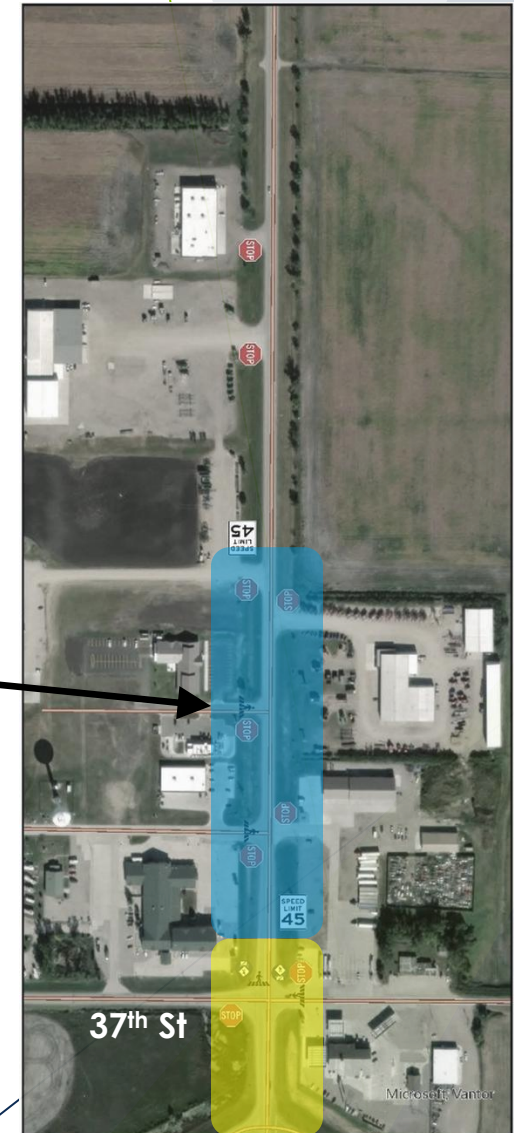
Existing Conditions – Lighting Analysis

Analysis

- Used NDDOT's Traffic Operations Manual to analyze existing lighting
- Existing lighting meets warrants
- One segment might meet lighting warrants (North of 37th St)

Criteria 4B: If substantial development is present on both sides of road (*likely*) and current AADT over 1,000 (*met*) or road is classified as Interregional or State Corridor (*met*).

If a warrant is met, roadway lighting may be installed at the option of NDDOT



Existing Conditions – Turn lanes



Existing turn lanes
(meets turn lane warrants)

Existing Conditions – Turn lane analysis



Intersection of Hwy 18 & Cottonwood Dr. / Morningside Dr.

Existing Conditions:

- Left turning vehicles (southbound Hwy 18 to Morningside Dr): 197 veh/day
- Right turning vehicles (southbound Hwy 18 to Cottonwood Dr): 76 veh/day or 11 veh/hr (highest hour)
- Left turn truck percentage: Unknown (assume 2%)
- Terrain: Flat
- Speed limit: 25 mph
- Major road AADT: 5,030 veh/day

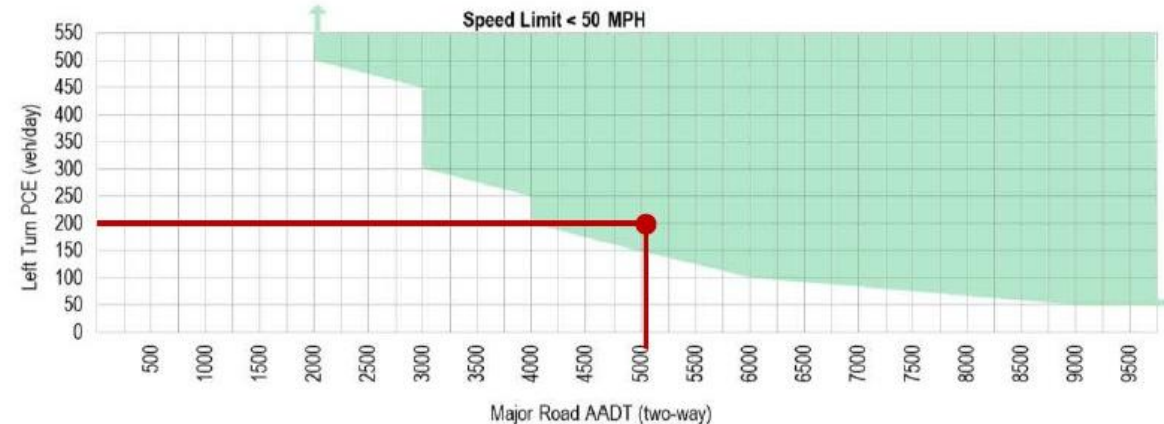
LEFT Turn Lane Analysis - Southbound

Calculations based on chart on page 31 of NDDOT Traffic Operations manual.

Passenger Car Equivalent (PCE)

PCE = VLT (1 + PT (ET - 1))
VLT: 197 veh/day
PT: 2% or 0.02
ET: 2.0 (level terrain)

$$\text{PCE} = 197 (1 + 0.02 (2.0 - 1)) = \mathbf{201 \text{ veh/day}}$$

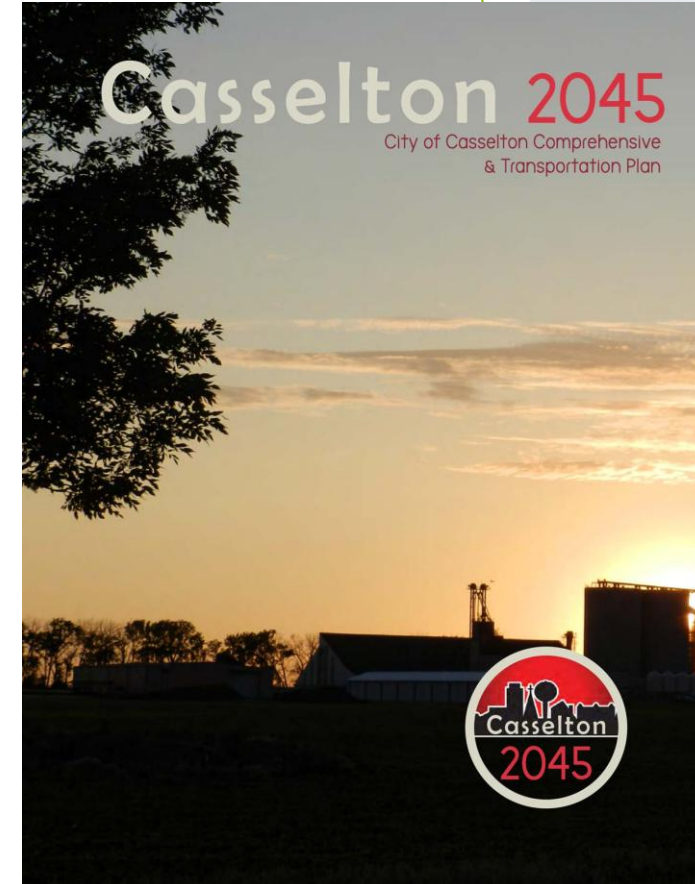


Based on the data gathered and per the NDDOT Traffic Operations manual, a left turn lane is warranted for the southbound Hwy 18 at Morningside Dr.

Casselton Comprehensive Plan Considerations

Casselton Comp Plan Considerations

Transportation	Responsibility	Term
Develop a brief alleyway improvement and maintenance plan to analyze citizen wants and needs in alleyways including the schedule of ongoing and future maintenance, and cost analysis.	PW	Short
Develop and maintain a street improvement master plan for Casselton.	PW	Short
Consider adopting 'complete street' roadway design guidelines, to think about all users of the roadway including pedestrians, bicyclists, vehicles, and transit.	CC	Short
Construct a prominent community gateway near I-94.	PW, PC, CC, JDA, CBA	Short
Coordinate with the school district to establish a radius around Central Cass Schools to prioritize intersection safety for pedestrians crossing roadways.	SB, PW, PC, CC	Short
Coordinate with Cass County to purchase box-culvert(s) more cost effectively for connection over Drain 64 connecting 15th Avenue to Willow Bend Drive, and future projects that may require such infrastructure.	PW	On-Going
Coordinate with the NDDOT on access management along the entirety of ND Hwy 18.	PW, PC, CC, NDDOT	On-Going
Coordinate with the NDDOT to conduct a corridor study along the entirety of ND Hwy 18/Governors Drive/Langer Avenue.	PW, PC, CC, NDDOT	On-Going
Coordinate with NDDOT to install striped crosswalks as needed along ND Hwy 18/Langer Avenue, prioritizing pedestrian safety to and from Central Cass Schools and near the central business district.	PW, PC, CC	Mid
Develop and maintain a sidewalk/trail/path improvement and maintenance plan for Casselton.	PW, PC, CC	Mid, Long
Construct new roadway over Cass County Drain 64 from 156th Avenue/15th Avenue to Willow Bend Drive.	PW, PC, CC	Mid, Long
Create a streetscape plan for various typical locations throughout the city (e.g. downtown, residential neighborhoods, industrial, highway commercial, etc.) so elements can be included in future projects and road construction or reconstruction.	PC, CC	Mid, Long
Construct a new roadway and extend Willow Bend Drive North to intersect with 2nd Street South.	PW, PC, CC	Long
Construct a grade separated overpass at the most feasible location over the BNSF railroad.	PW, PC, CC, NDDOT	Illustrative



Casselton Comp Plan Considerations

Construct a prominent community gateway near I-94.	PW, PC, CC, JDA, CBA	Short
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Casselton Comp Plan Considerations

Coordinate with the NDDOT to conduct a corridor study along the entirety of ND Hwy 18/Governors Drive/Langer Avenue.

PW, PC, CC,
NDDOT

On-Going

Coordinate with the NDDOT on access management along the entirety of ND Hwy 18.

PW, PC, CC,
NDDOT

On-Going



Casselton Comp Plan Considerations

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Casselton Comp Plan Considerations

Coordinate with Cass County to purchase box-culvert(s) more cost effectively for connection over Drain 64 connecting 15th Avenue to Willow Bend Drive, and future projects that may require such infrastructure.

PW

On-Going

Construct new roadway over Cass County Drain 64 from 156th Avenue/15th Avenue to Willow Bend Drive.

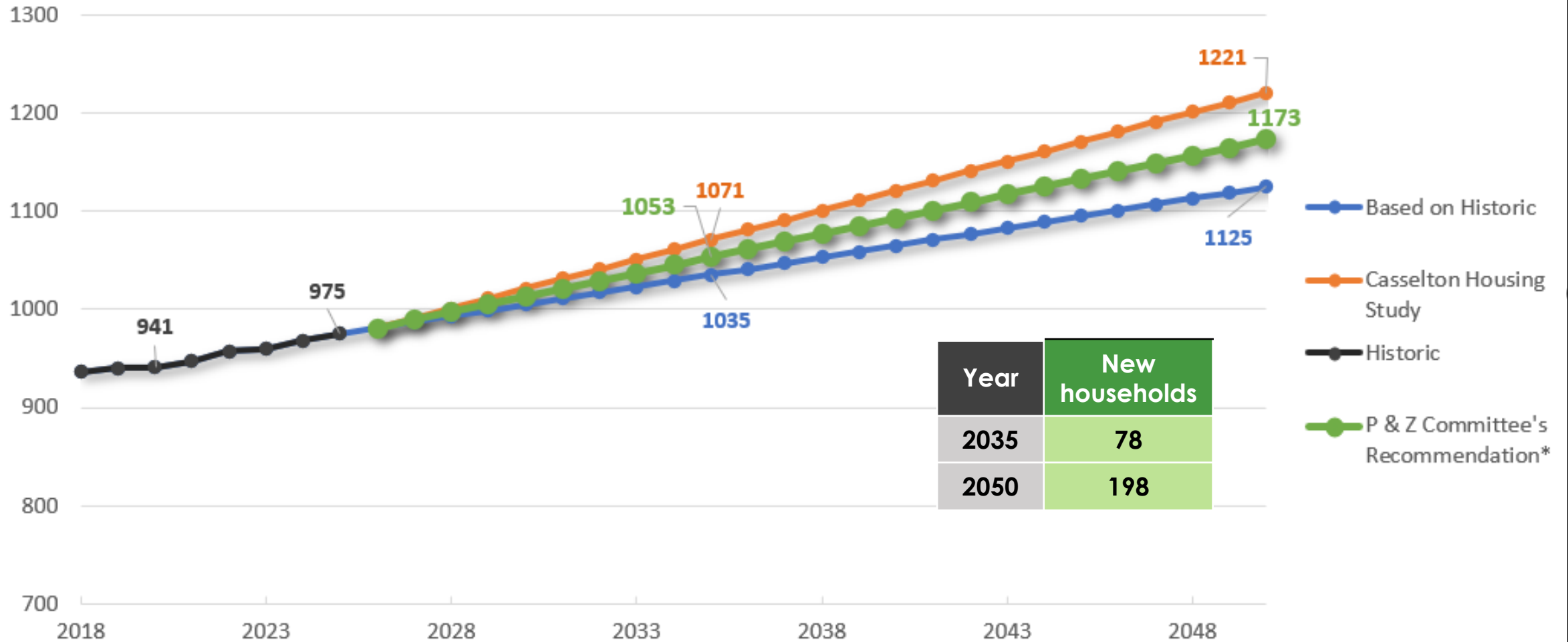
PW, PC, CC

Mid, Long

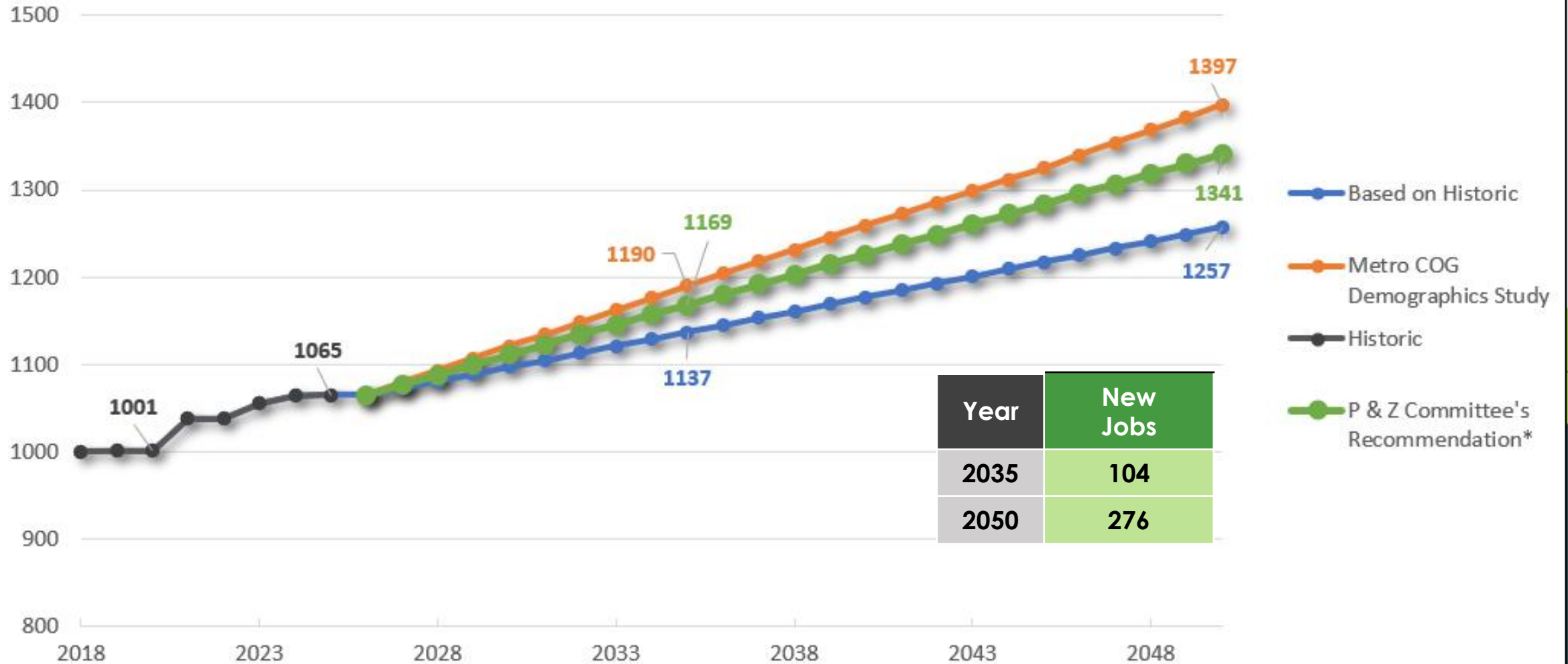


Future Conditions

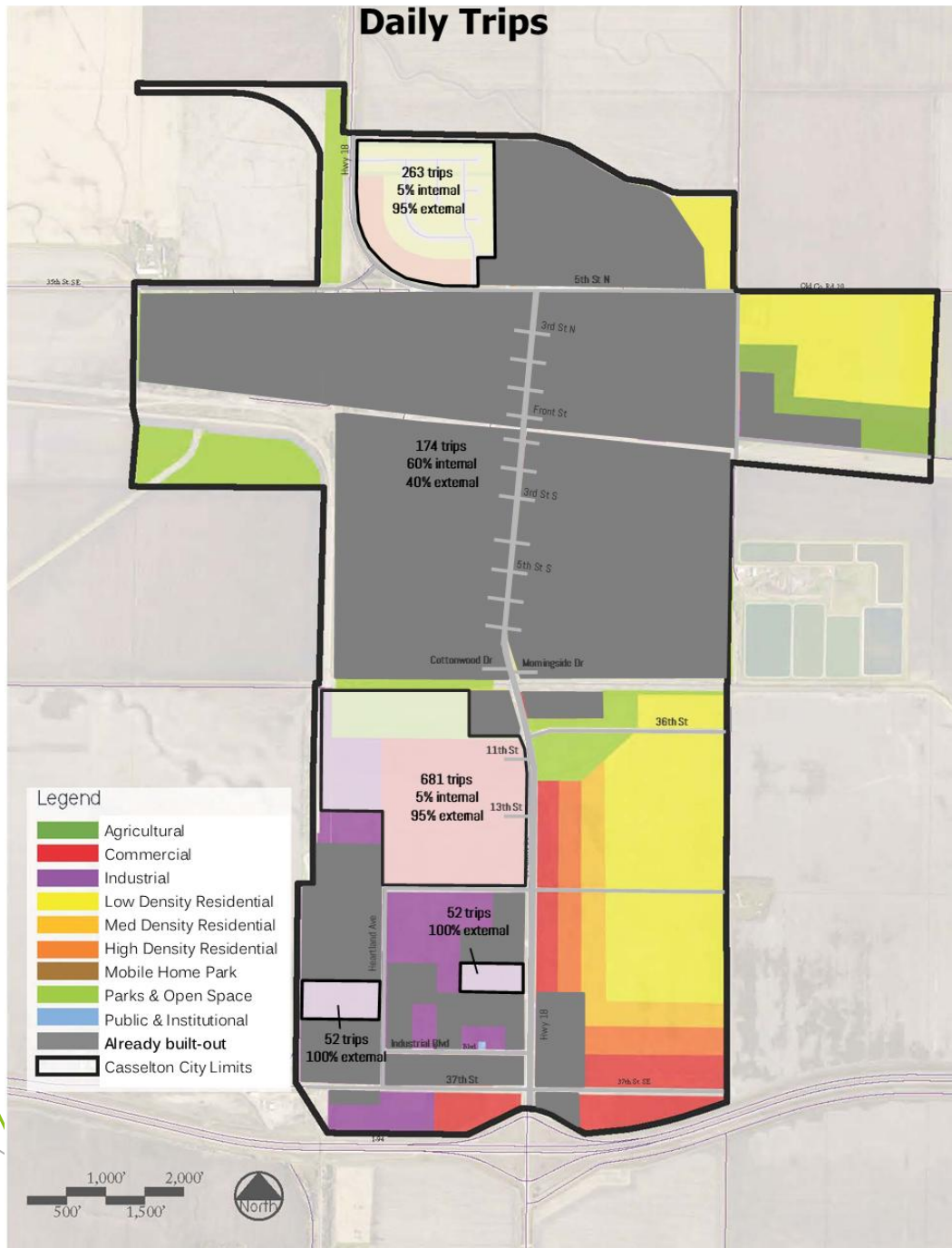
Future Conditions – Households



Future Conditions – Jobs



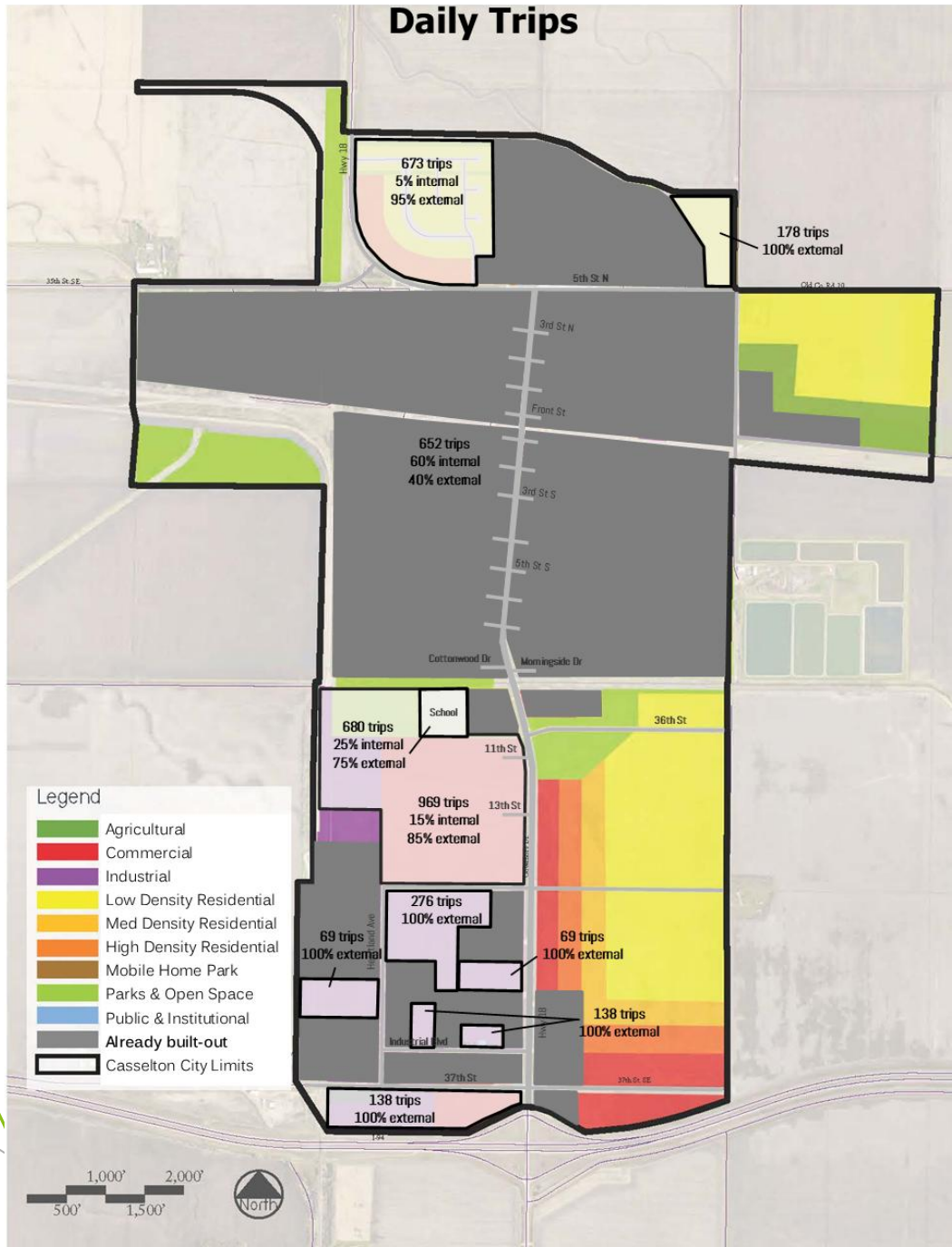
2035 Households & Jobs Allocation



Future Conditions - Trips

2050 Households & Jobs Allocation

Daily Trips



Future Conditions - Trips

Future Conditions – Traffic



Future Conditions – Traffic





Stakeholder Engagement

Stakeholder Engagement

Who should we reach out to for stakeholder engagement?

- Businesses along corridor?
- Freight?
- Other?

Next Steps

Next Steps

Additional Discussion?

