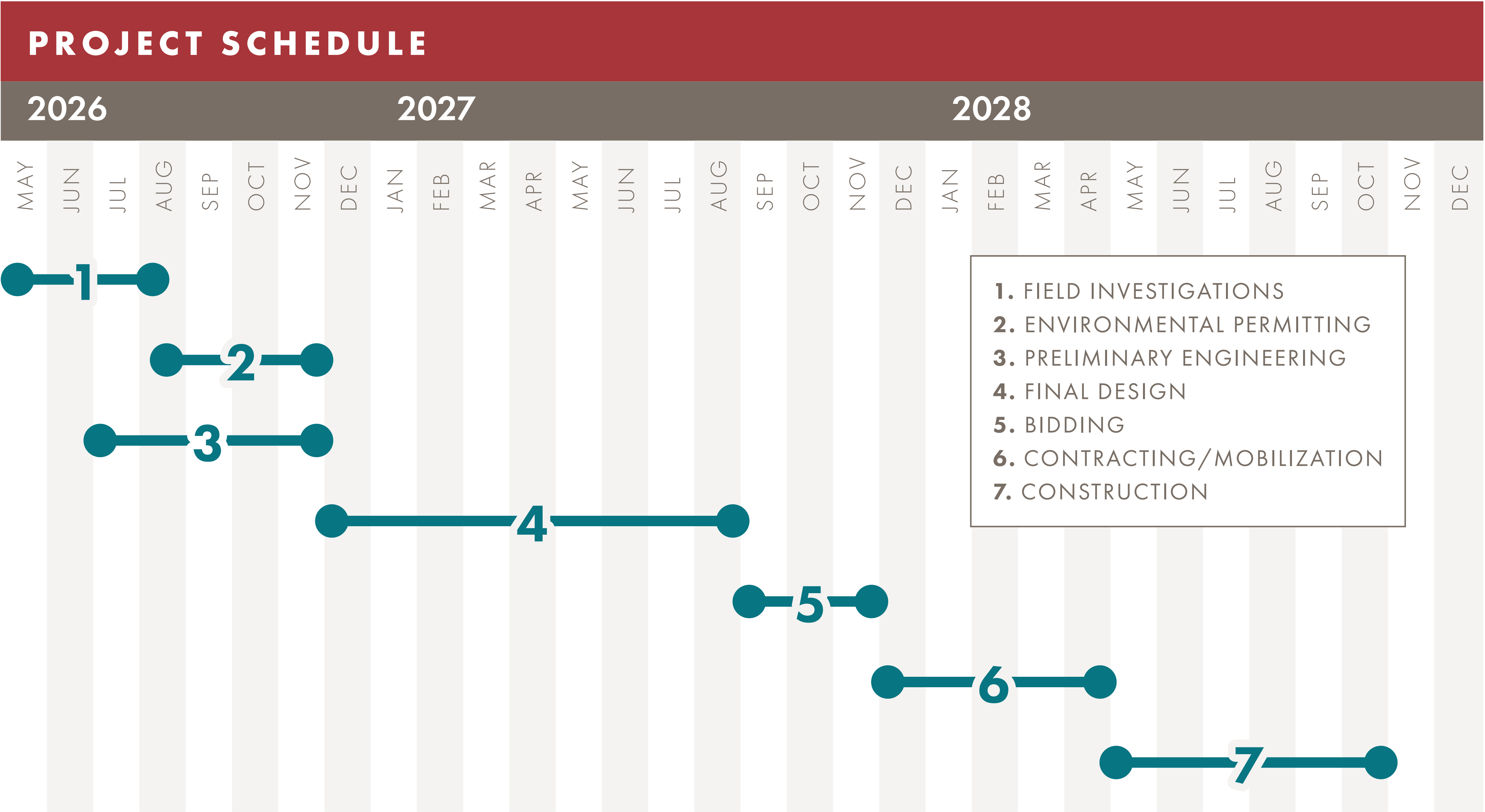


Highway 17 Safety Improvements Project



This project will improve safety through the construction of roundabouts and turn lanes at three intersections along ND Highway 17, due to several documented crashes at all three locations. The project includes: a new roundabout at the north intersection of Highway 17 and Highway 18, a new left-turn lane and extension of the existing right-turn lane at the south intersection of Highway 17 and Highway 18, and retrofitting a new roundabout in the existing intersection of Highway 17 and Highway 32. This project includes adjustment of the existing superelevation through the horizontal curve of the north junction of Highway 17 and Highway 18 to accommodate the roundabout.

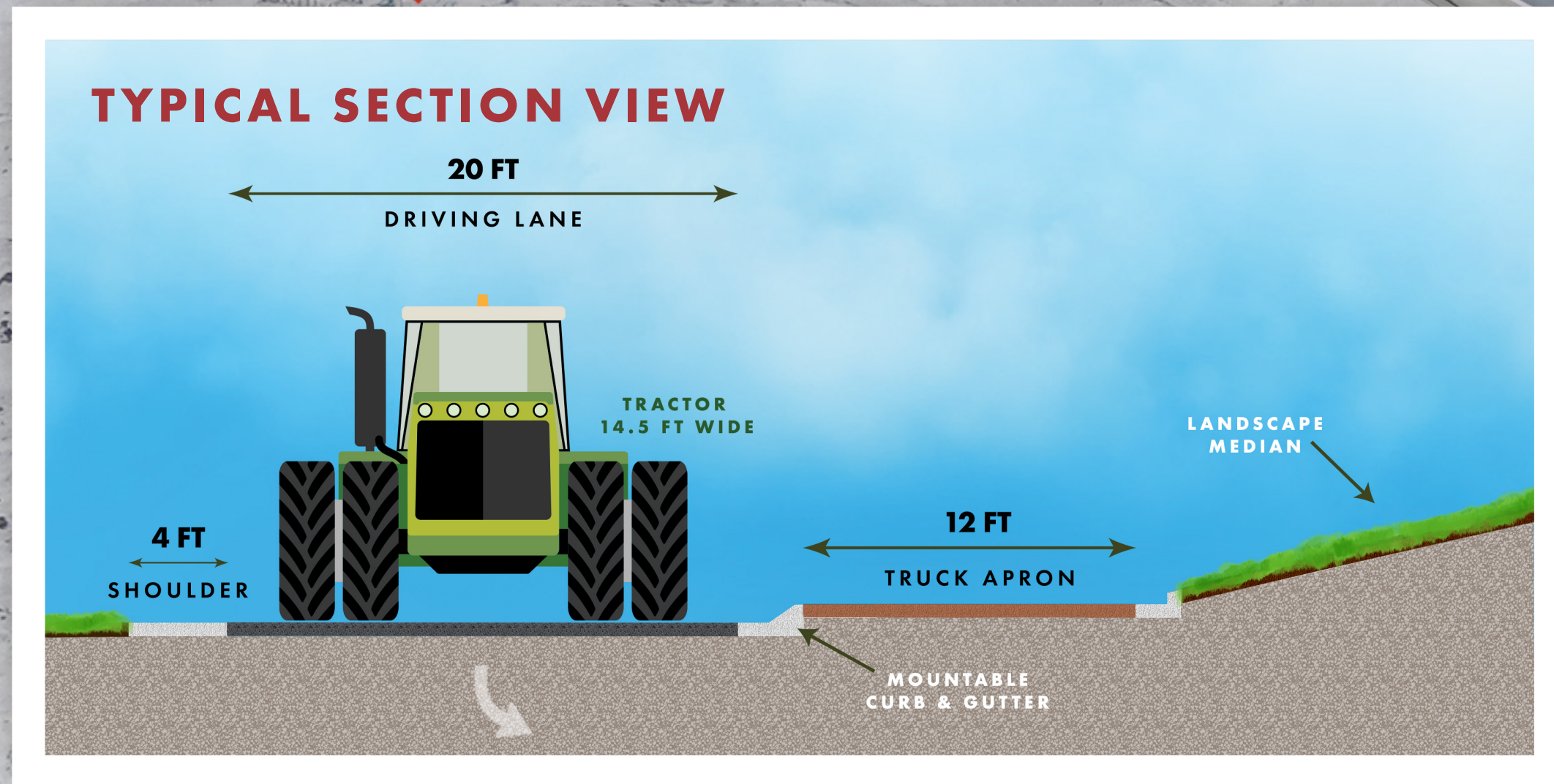




HIGHWAY 17 & 18

HIGHWAY 18

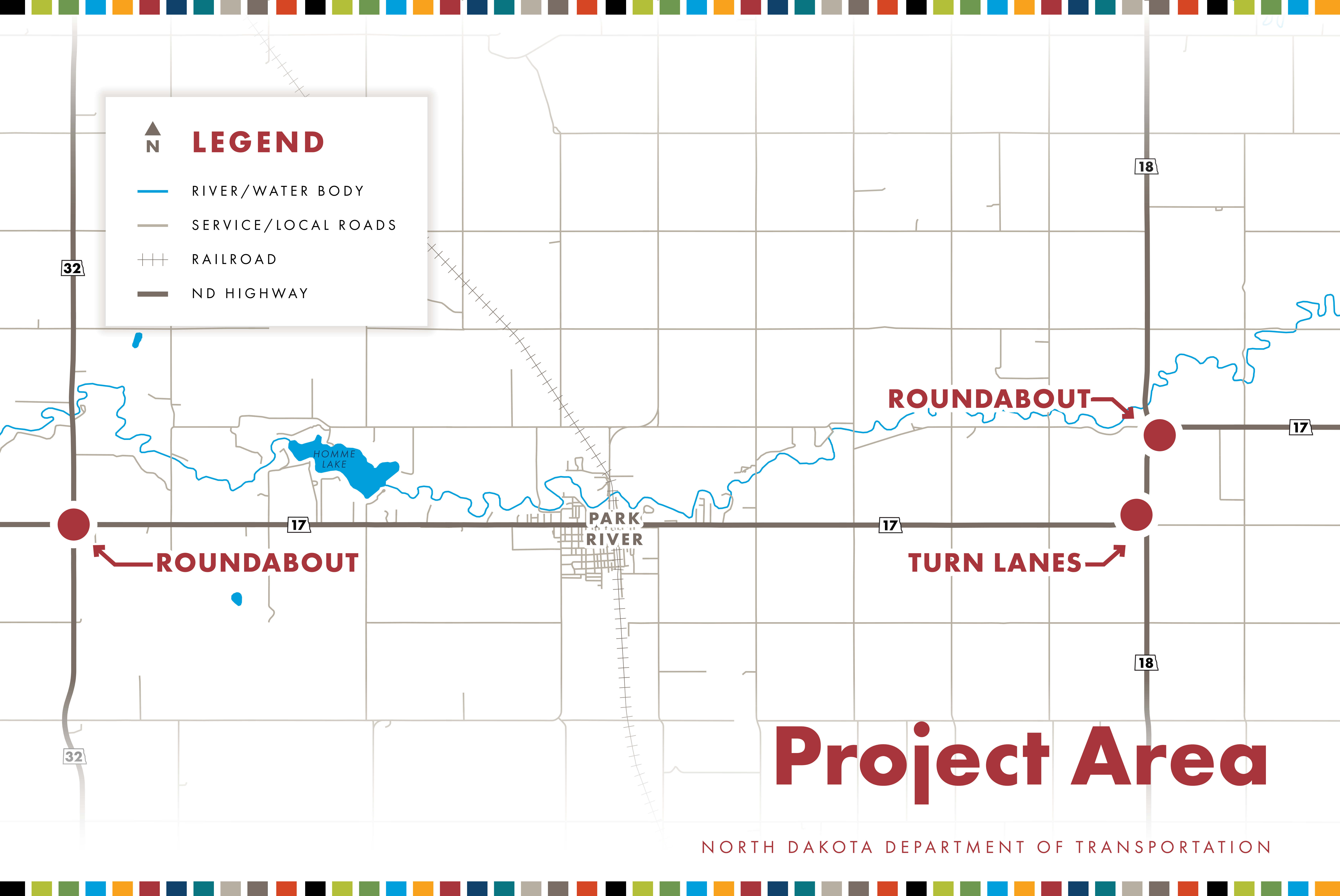
HIGHWAY 17





LEGEND

-  RIVER/WATER BODY
-  SERVICE/LOCAL ROADS
-  RAILROAD
-  ND HIGHWAY



Project Area

NORTH DAKOTA DEPARTMENT OF TRANSPORTATION

ROUNDABOUT SAFETY STATS

36%

REDUCTION
IN ALL
CRASHES

*NORTH DAKOTA STATISTIC

59%

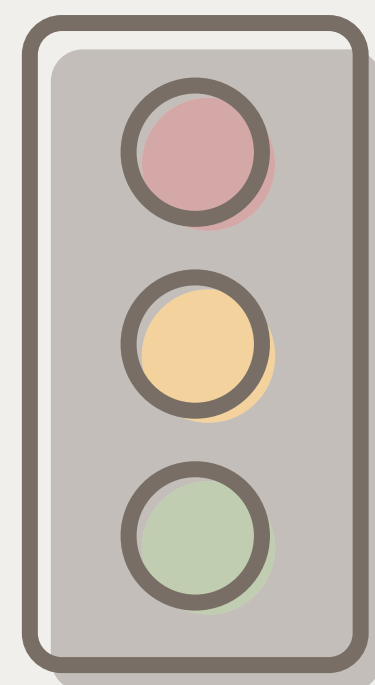
REDUCTION
IN SEVERE
CRASHES

*NORTH DAKOTA STATISTIC

80%

REDUCTION
IN FATALITIES

*NORTH DAKOTA STATISTIC



78%

Reduction in Fatal
and Injury Crashes

*in signalized intersections
converted to roundabouts*

*NATIONAL STATISTIC



82%

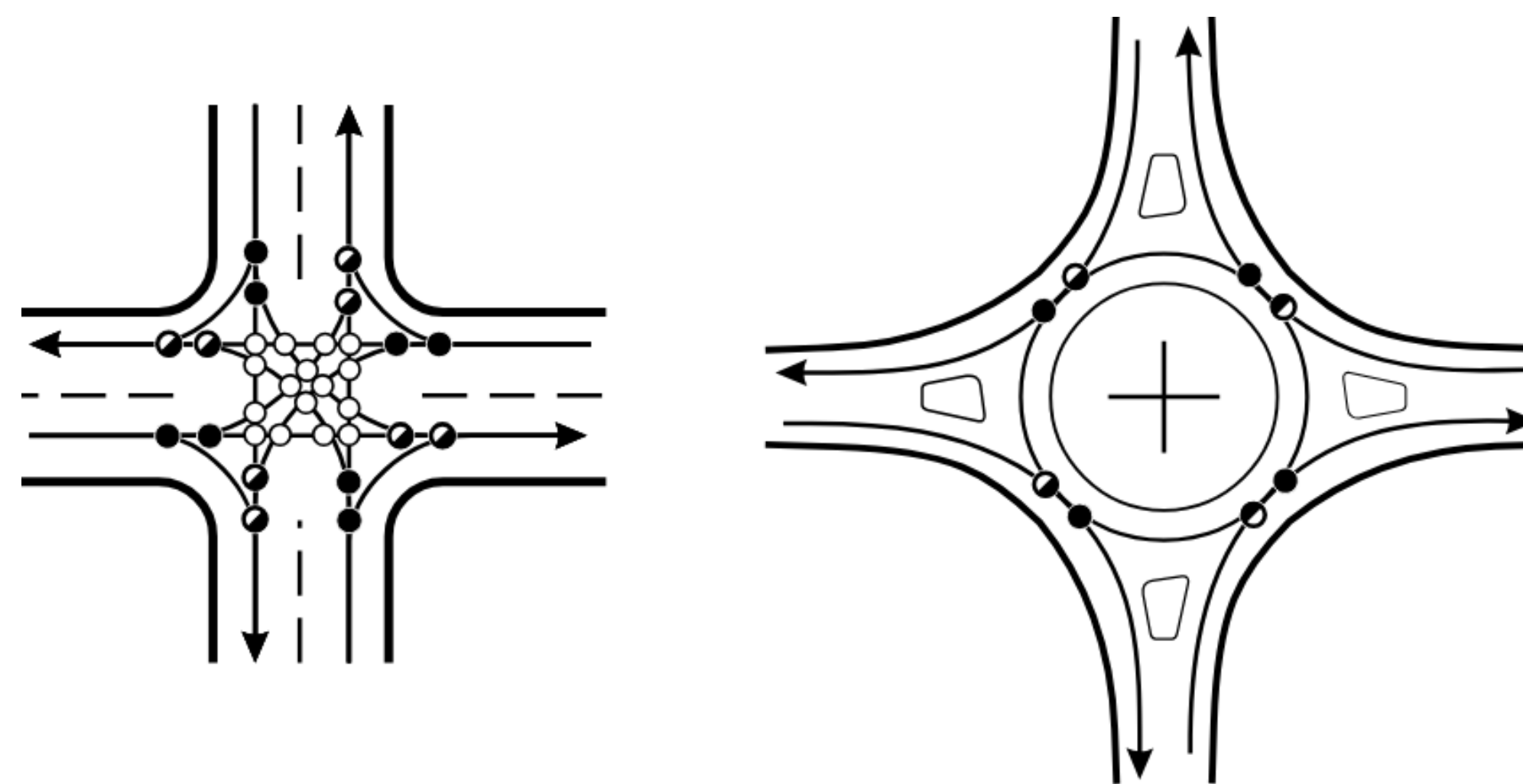
Reduction in Fatal
and Injury Crashes

*in 2 way stop intersections
converted to roundabouts*

*NATIONAL STATISTIC

Safety Concerns

WHY ARE ROUNDABOUTS SAFER?



Fewer Conflict Points

Vehicles have less contact with opposing traffic.

Lower Speeds

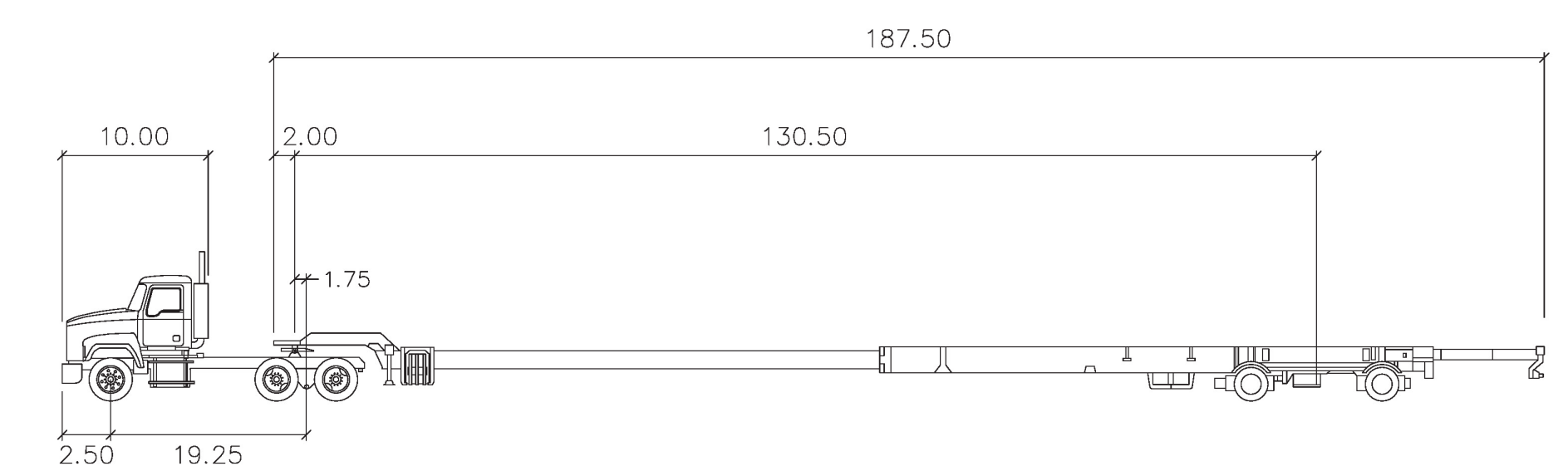
Roundabout geometrics require motorists to move at lower speeds to enter and circulate the intersection.

15 – 25 mph

IMPLEMENTATION

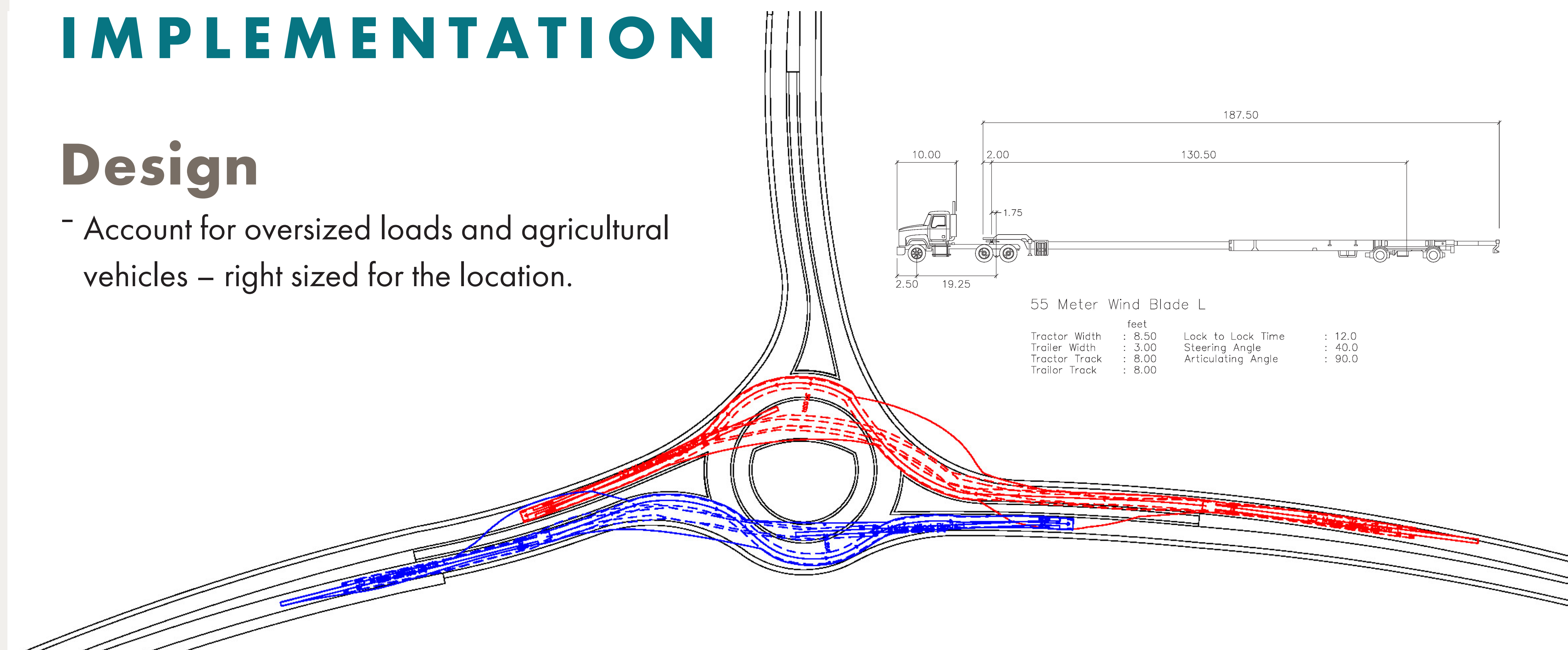
Design

- Account for oversized loads and agricultural vehicles – right sized for the location.



55 Meter Wind Blade L

Tractor Width	: 8.50	Lock to Lock Time	: 12.0
Trailer Width	: 3.00	Steering Angle	: 40.0
Tractor Track	: 8.00	Articulating Angle	: 90.0
Trailer Track	: 8.00		



PARK RIVER

VISION ZERO



WHAT IS VISION ZERO?

Vision Zero is North Dakota’s commitment to ending traffic deaths and serious injuries. The goal is simple: zero fatalities and serious injuries on our roads.

Park River Vision Zero

Park River was NDDOT’s first Vision Zero community in 2018 with a commitment to reach zero fatalities and serious injuries on roads. Roundabouts are a proven safety measure in reducing fatal and serious injury crashes and have been utilized on other rural highways in ND. Due to crash/collision frequency at all three locations, safety improvements were recommended to prevent future incidents.

ND 17 Crash Data

LOCATION	TOTAL	K	A	B	C	PDO
ND 18 N JCT	9	1	2	3	-	3
ND 18 S JCT	2	-	-	1	-	1
ND 32 JCT	3	1	-	1	1	-

LEGEND	
K	FATAL
A	SUSPECTED SERIOUS INJURY
B	SUSPECTED MINOR INJURY
C	POSSIBLE INJURY
PDO	PROPERTY DAMAGE ONLY

FOR MORE INFORMATION

VISIT THE VISION ZERO WEBSITE visionzero.nd.gov

Roundabouts on State Highways in North Dakota

