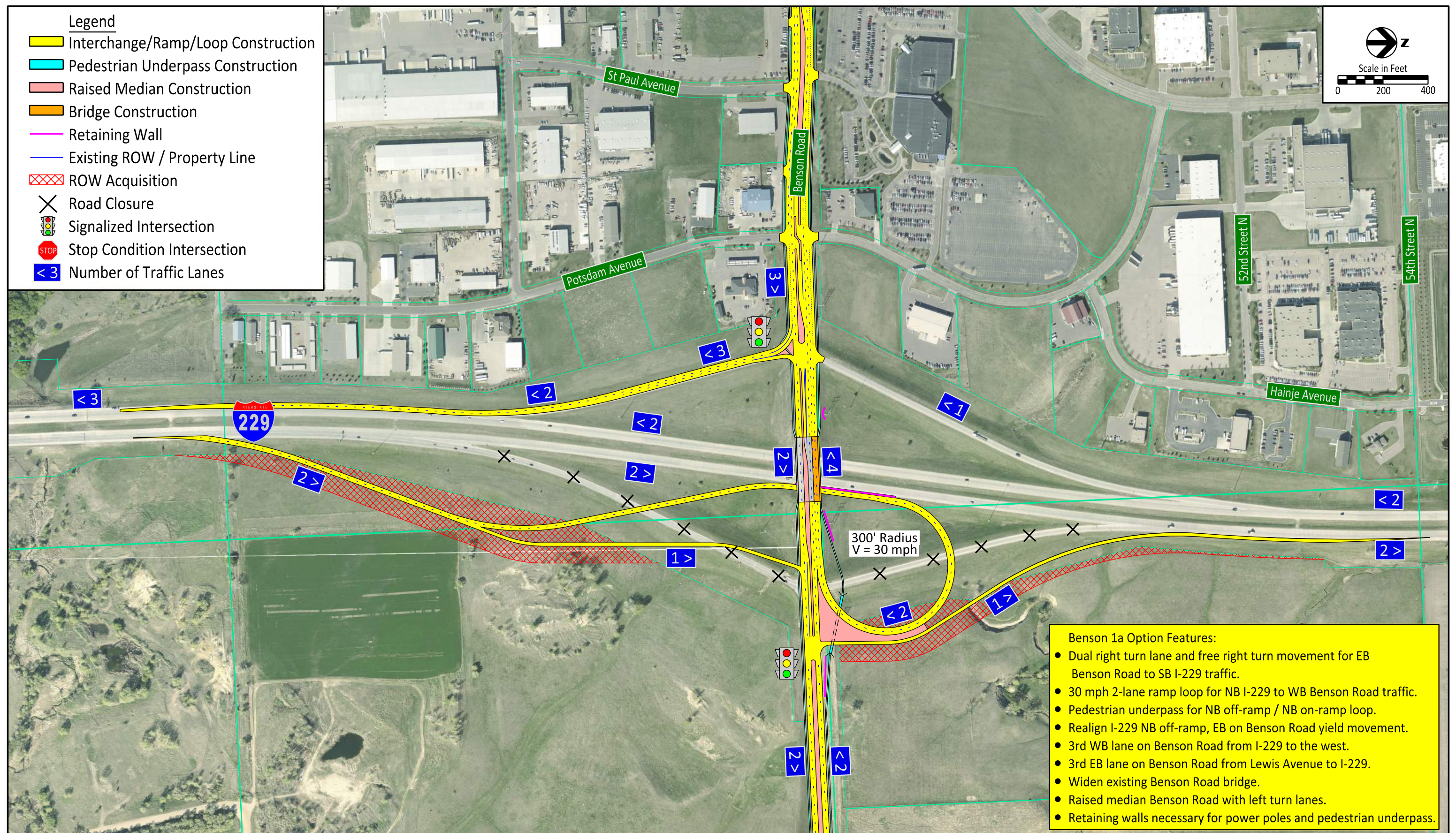
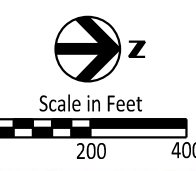


Legend

- Interchange/Ramp/Loop Construction
- Pedestrian Underpass Construction
- Raised Median Construction
- Bridge Construction
- Retaining Wall
- Existing ROW / Property Line
- ROW Acquisition
- X Road Closure
- Signalized Intersection
- STOP

 Stop Condition Intersection
- <3 Number of Traffic Lanes



- Benson 1a Option Features:**
- Dual right turn lane and free right turn movement for EB Benson Road to SB I-229 traffic.
 - 30 mph 2-lane ramp loop for NB I-229 to WB Benson Road traffic.
 - Pedestrian underpass for NB off-ramp / NB on-ramp loop.
 - Realign I-229 NB off-ramp, EB on Benson Road yield movement.
 - 3rd WB lane on Benson Road from I-229 to the west.
 - 3rd EB lane on Benson Road from Lewis Avenue to I-229.
 - Widen existing Benson Road bridge.
 - Raised median Benson Road with left turn lanes.
 - Retaining walls necessary for power poles and pedestrian underpass.

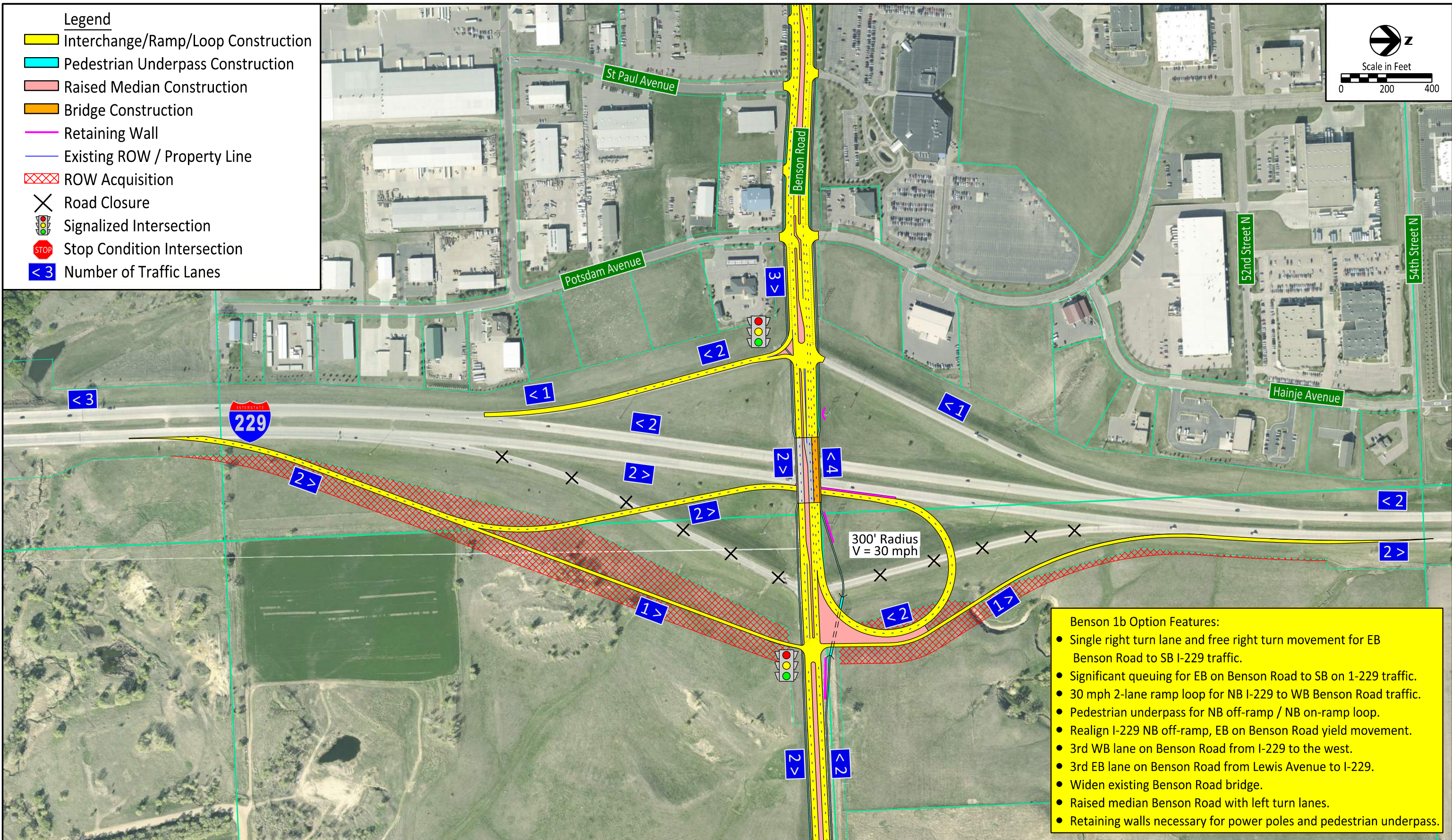
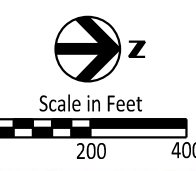
Drawn By: B.Miller
 Date: 5/14/2018
 Chkd By: P.Sanow
 Date: 5/14/2018
 Revision:



Alternative Scenario 1a
 2-Lane Northeast Quadrant Loop with 3-Lane SB On-Ramp.
 I-229 Exit 9 (Benson Road) IMJR

Legend

- Interchange/Ramp/Loop Construction
- Pedestrian Underpass Construction
- Raised Median Construction
- Bridge Construction
- Retaining Wall
- Existing ROW / Property Line
- ROW Acquisition
- X Road Closure
- Signalized Intersection
- Stop Condition Intersection
- <3 Number of Traffic Lanes

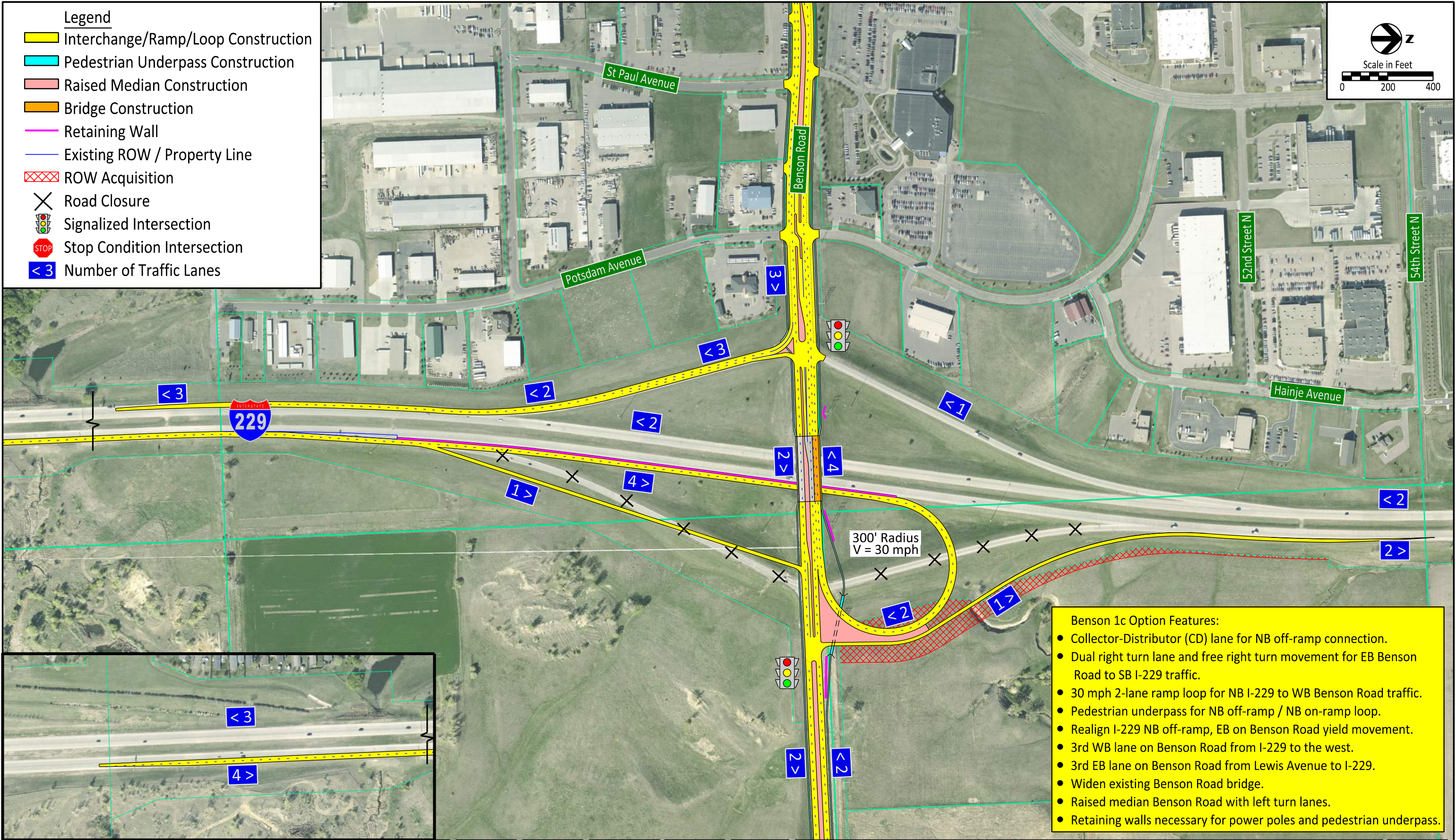


- Benson 1b Option Features:**
- Single right turn lane and free right turn movement for EB Benson Road to SB I-229 traffic.
 - Significant queuing for EB on Benson Road to SB on I-229 traffic.
 - 30 mph 2-lane ramp loop for NB I-229 to WB Benson Road traffic.
 - Pedestrian underpass for NB off-ramp / NB on-ramp loop.
 - Realign I-229 NB off-ramp, EB on Benson Road yield movement.
 - 3rd WB lane on Benson Road from I-229 to the west.
 - 3rd EB lane on Benson Road from Lewis Avenue to I-229.
 - Widen existing Benson Road bridge.
 - Raised median Benson Road with left turn lanes.
 - Retaining walls necessary for power poles and pedestrian underpass.

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 Date: 5/14/2018
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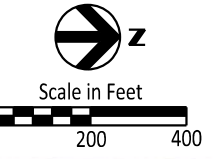


Alternative Scenario 1b
 2-Lane Northeast Quadrant Loop with 2-Lane SB On-Ramp.
 I-229 Exit 9 (Benson Road) IMJR



Legend

- Interchange/Ramp/Loop Construction
- Pedestrian Underpass Construction
- Raised Median Construction
- Bridge Construction
- Retaining Wall
- Existing ROW / Property Line
- ROW Acquisition
- X Road Closure
- Signalized Intersection
- Stop Condition Intersection
- Number of Traffic Lanes



- Benson 1c Option Features:**
- Collector-Distributor (CD) lane for NB off-ramp connection.
 - Dual right turn lane and free right turn movement for EB Benson Road to SB I-229 traffic.
 - 30 mph 2-lane ramp loop for NB I-229 to WB Benson Road traffic.
 - Pedestrian underpass for NB off-ramp / NB on-ramp loop.
 - Realign I-229 NB off-ramp, EB on Benson Road yield movement.
 - 3rd WB lane on Benson Road from I-229 to the west.
 - 3rd EB lane on Benson Road from Lewis Avenue to I-229.
 - Widen existing Benson Road bridge.
 - Raised median Benson Road with left turn lanes.
 - Retaining walls necessary for power poles and pedestrian underpass.

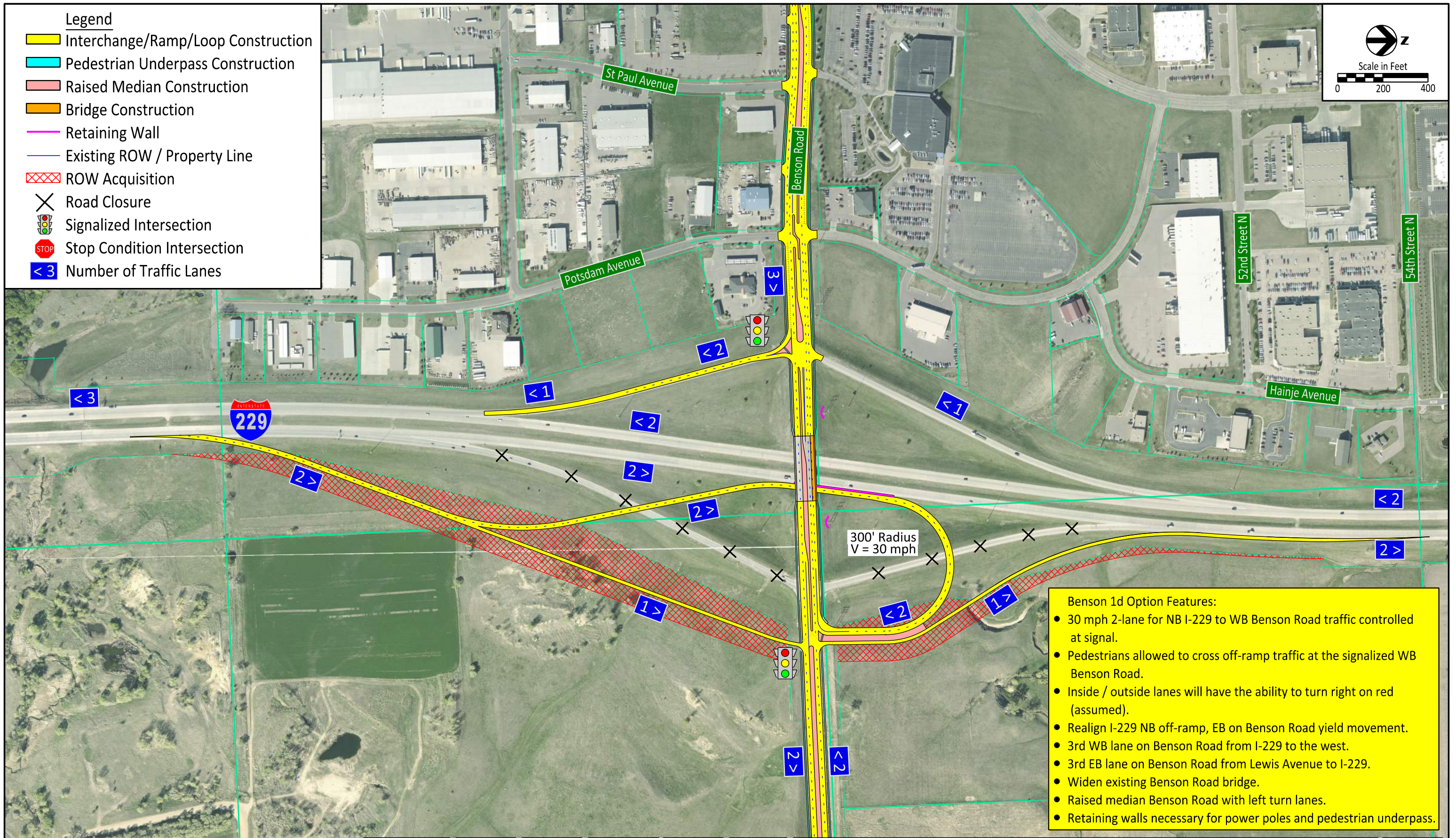
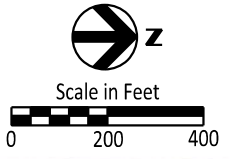
Drawn By: B.Miller
 Date: 5/14/2018
 Chkd By: P.Sanow
 Date: 5/14/2018
 Revision:



Alternative Scenario 1c
 2-Lane Collector - Distributor (CD) Lane Northeast Quadrant Loop with 3-Lane SB On-Ramp.
 I-229 Exit 9 (Benson Road) IMJR

Legend

- Interchange/Ramp/Loop Construction
- Pedestrian Underpass Construction
- Raised Median Construction
- Bridge Construction
- Retaining Wall
- Existing ROW / Property Line
- ROW Acquisition
- X Road Closure
- 🚦 Signalized Intersection
- 🛑 Stop Condition Intersection
- <3 Number of Traffic Lanes



- Benson 1d Option Features:**
- 30 mph 2-lane for NB I-229 to WB Benson Road traffic controlled at signal.
 - Pedestrians allowed to cross off-ramp traffic at the signalized WB Benson Road.
 - Inside / outside lanes will have the ability to turn right on red (assumed).
 - Realign I-229 NB off-ramp, EB on Benson Road yield movement.
 - 3rd WB lane on Benson Road from I-229 to the west.
 - 3rd EB lane on Benson Road from Lewis Avenue to I-229.
 - Widen existing Benson Road bridge.
 - Raised median Benson Road with left turn lanes.
 - Retaining walls necessary for power poles and pedestrian underpass.

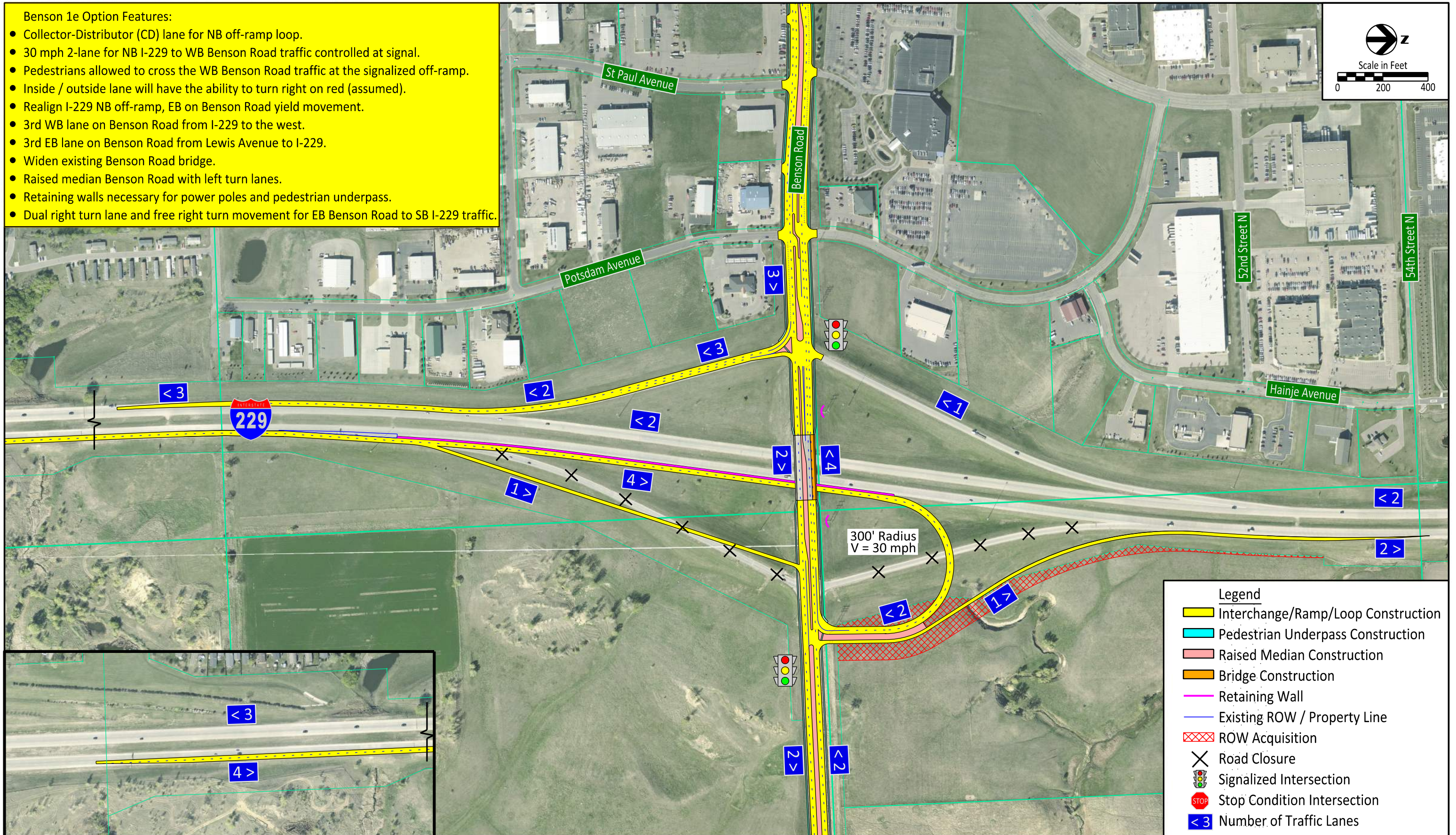
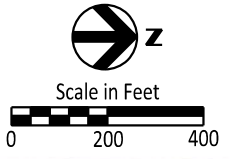
Drawn By: B.Miller
 Date: 5/14/2018
 Chkd By: P.Sanow
 Date: 5/14/2018
 Revision:



Alternative Scenario 1d
 2-Lane Partial Clover Leaf Northeast Quadrant with 2-Lane SB On-Ramp.
 I-229 Exit 9 (Benson Road) IMJR

Benson 1e Option Features:

- Collector-Distributor (CD) lane for NB off-ramp loop.
- 30 mph 2-lane for NB I-229 to WB Benson Road traffic controlled at signal.
- Pedestrians allowed to cross the WB Benson Road traffic at the signalized off-ramp.
- Inside / outside lane will have the ability to turn right on red (assumed).
- Realign I-229 NB off-ramp, EB on Benson Road yield movement.
- 3rd WB lane on Benson Road from I-229 to the west.
- 3rd EB lane on Benson Road from Lewis Avenue to I-229.
- Widen existing Benson Road bridge.
- Raised median Benson Road with left turn lanes.
- Retaining walls necessary for power poles and pedestrian underpass.
- Dual right turn lane and free right turn movement for EB Benson Road to SB I-229 traffic.



Legend	
	Interchange/Ramp/Loop Construction
	Pedestrian Underpass Construction
	Raised Median Construction
	Bridge Construction
	Retaining Wall
	Existing ROW / Property Line
	ROW Acquisition
	Road Closure
	Signalized Intersection
	Stop Condition Intersection
	Number of Traffic Lanes

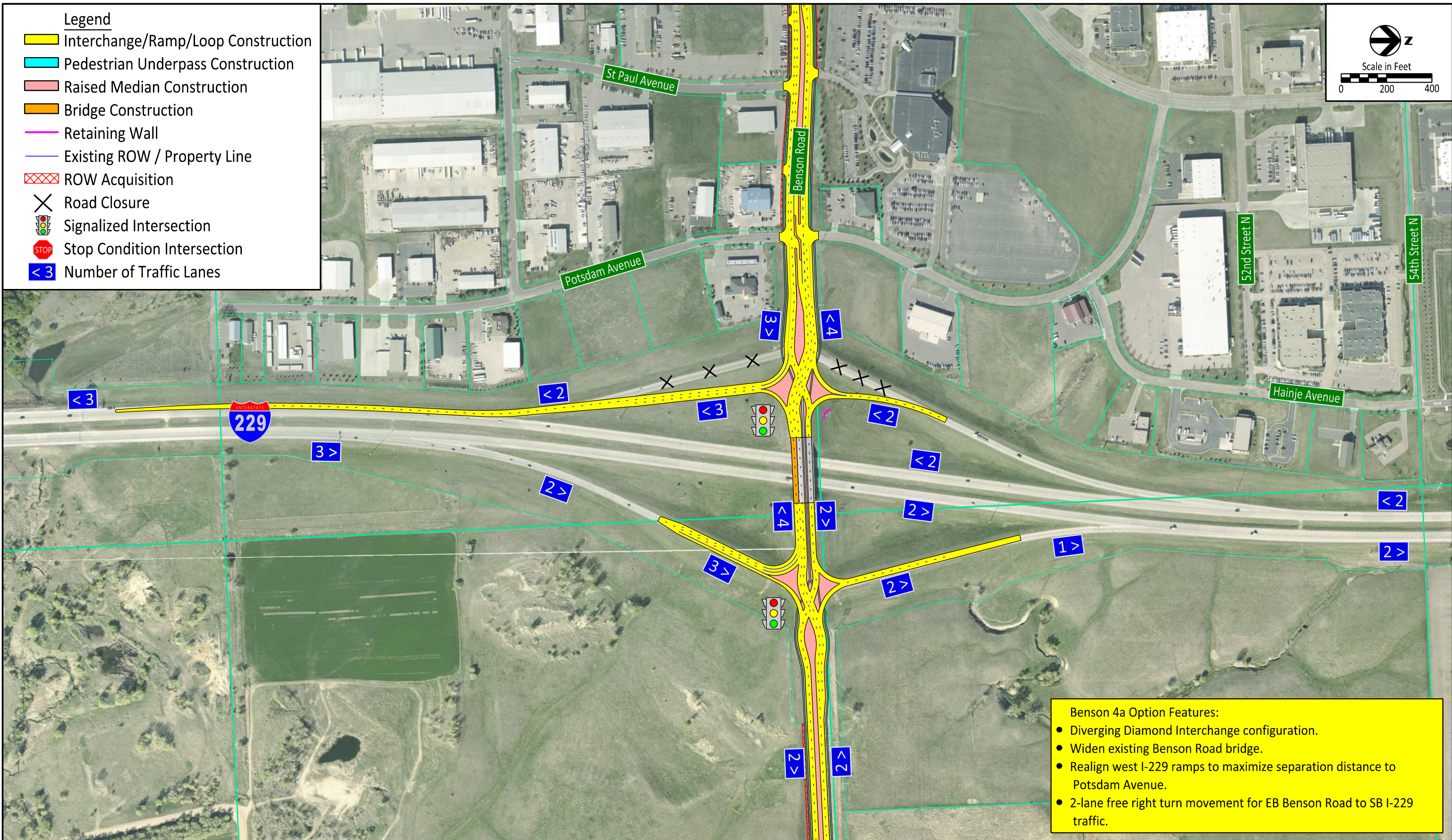
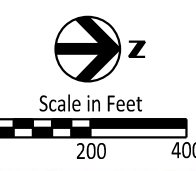
Drawn By: B. Miller
 Date: 5/14/2018
 Chkd By: P. Sanow
 Date: 5/14/2018
 Revision:



Alternative Scenario 1e
 2-Lane Partial Clover Leaf Northeast Quadrant with CD Lane and 2-Lane SB On-Ramp.
 I-229 Exit 9 (Benson Road) IMJR

Legend

- Interchange/Ramp/Loop Construction
- Pedestrian Underpass Construction
- Raised Median Construction
- Bridge Construction
- Retaining Wall
- Existing ROW / Property Line
- ROW Acquisition
- X Road Closure
- Signalized Intersection
- Stop Condition Intersection
- < 3 > Number of Traffic Lanes



Benson 4a Option Features:

- Diverging Diamond Interchange configuration.
- Widen existing Benson Road bridge.
- Realign west I-229 ramps to maximize separation distance to Potsdam Avenue.
- 2-lane free right turn movement for EB Benson Road to SB I-229 traffic.

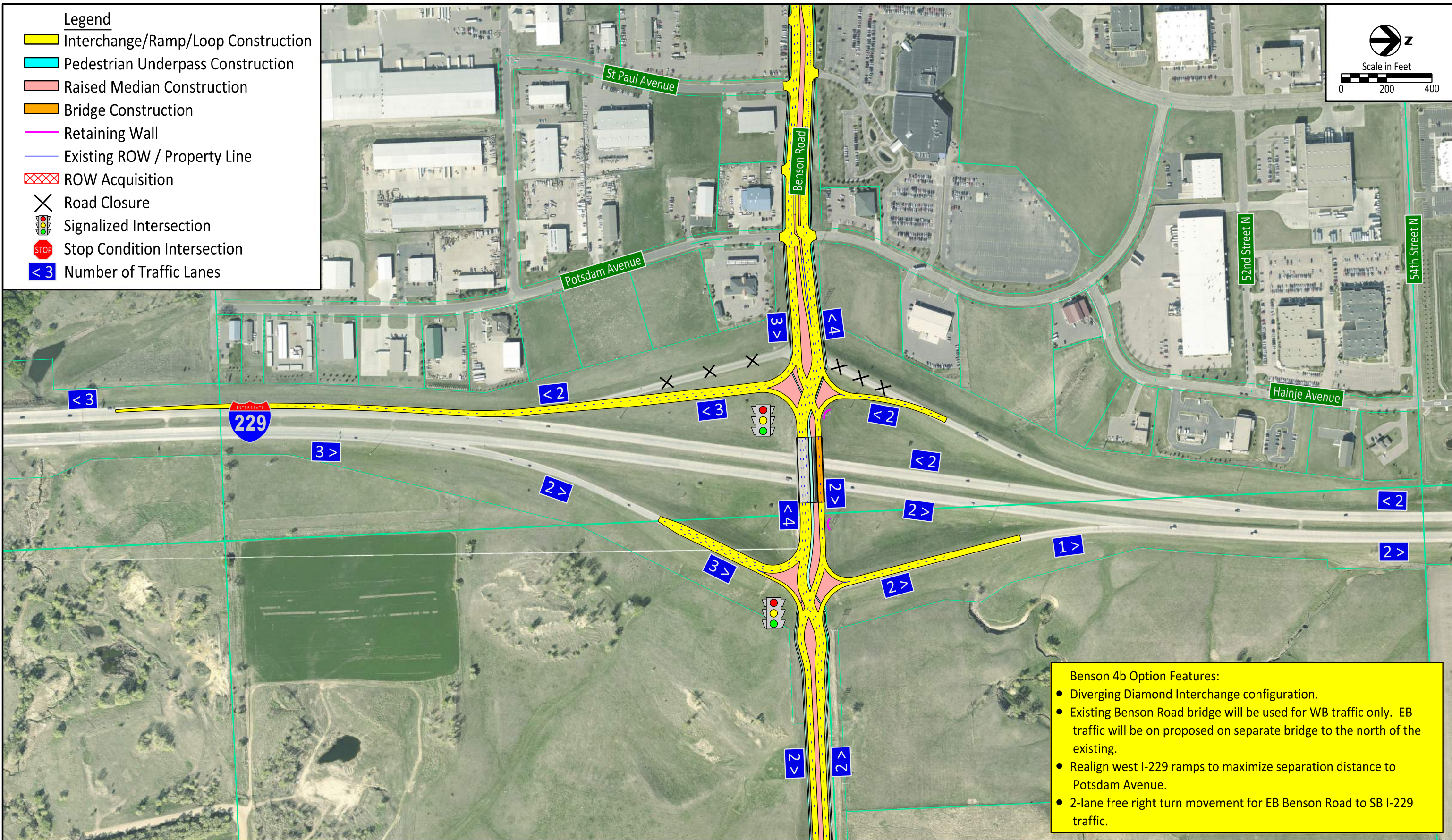
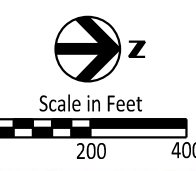
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Date: 5/14/2018
Chkd By: P.Sanow
Date: 5/14/2018
Revision:



Alternative Scenario 4a
Diverging Diamond Interchange with 3-Lane SB On-Ramp. Add 2 WB Lanes to Existing Overpass.
I-229 Exit 9 (Benson Road) IMJR

Legend

- Interchange/Ramp/Loop Construction
- Pedestrian Underpass Construction
- Raised Median Construction
- Bridge Construction
- Retaining Wall
- Existing ROW / Property Line
- ROW Acquisition
- X Road Closure
- Signalized Intersection
- Stop Condition Intersection
- <3 Number of Traffic Lanes



Benson 4b Option Features:

- Diverging Diamond Interchange configuration.
- Existing Benson Road bridge will be used for WB traffic only. EB traffic will be on proposed on separate bridge to the north of the existing.
- Realign west I-229 ramps to maximize separation distance to Potsdam Avenue.
- 2-lane free right turn movement for EB Benson Road to SB I-229 traffic.

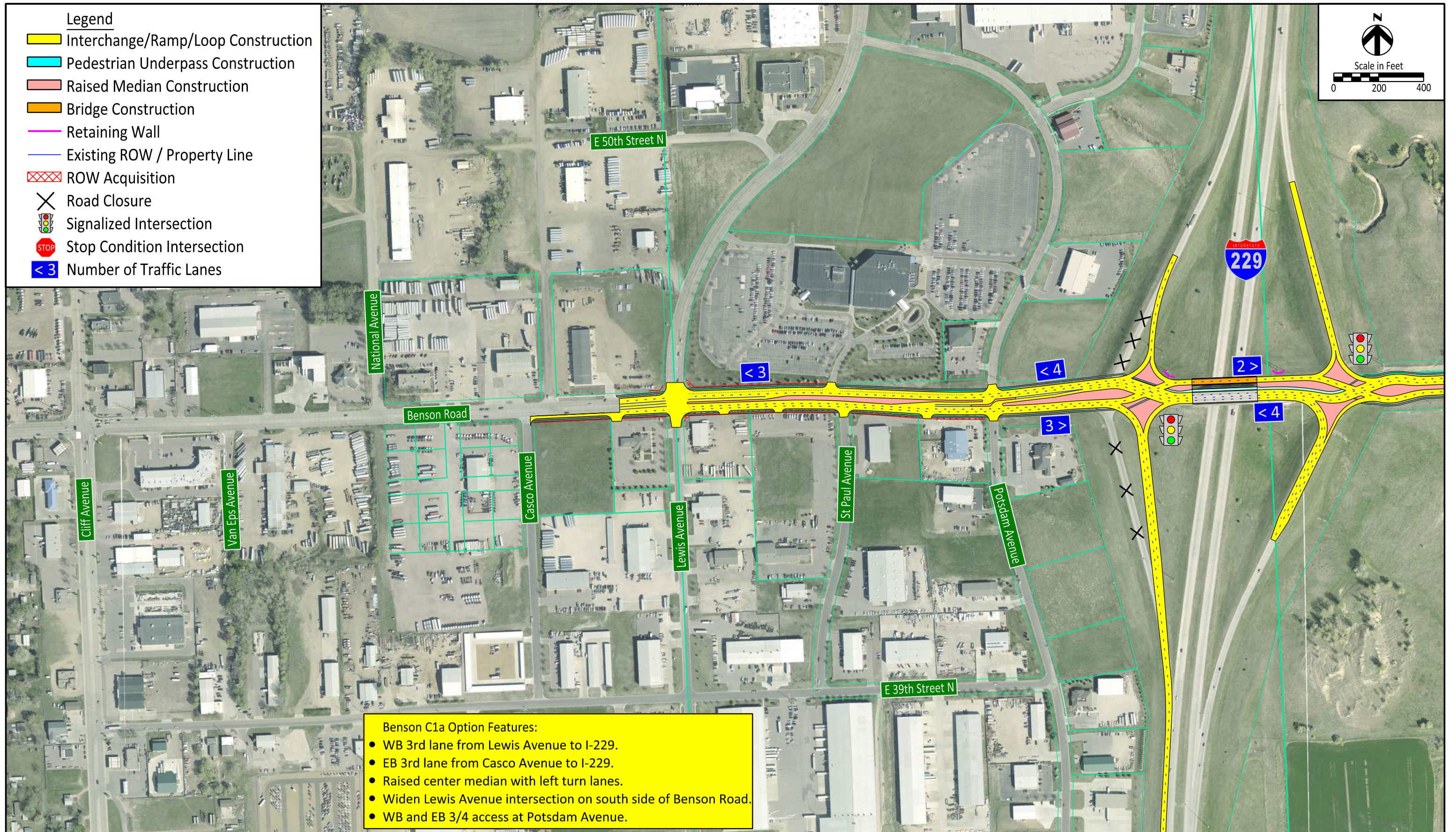
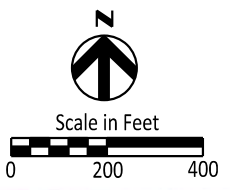
Drawn By: B.Miller
 Date: 5/14/2018
 Chkd By: P.Sanow
 Date: 5/14/2018
 Revision:



Alternative Scenario 4b
 Diverging Diamond Interchange with 3-Lane SB On-Ramp. Add a Separate Structure for 2 EB Lanes.
 I-229 Exit 9 (Benson Road) IMJR

Legend

- Interchange/Ramp/Loop Construction
- Pedestrian Underpass Construction
- Raised Median Construction
- Bridge Construction
- Retaining Wall
- Existing ROW / Property Line
- ROW Acquisition
- X Road Closure
- 🚦 Signalized Intersection
- STOP Stop Condition Intersection
- <3 Number of Traffic Lanes

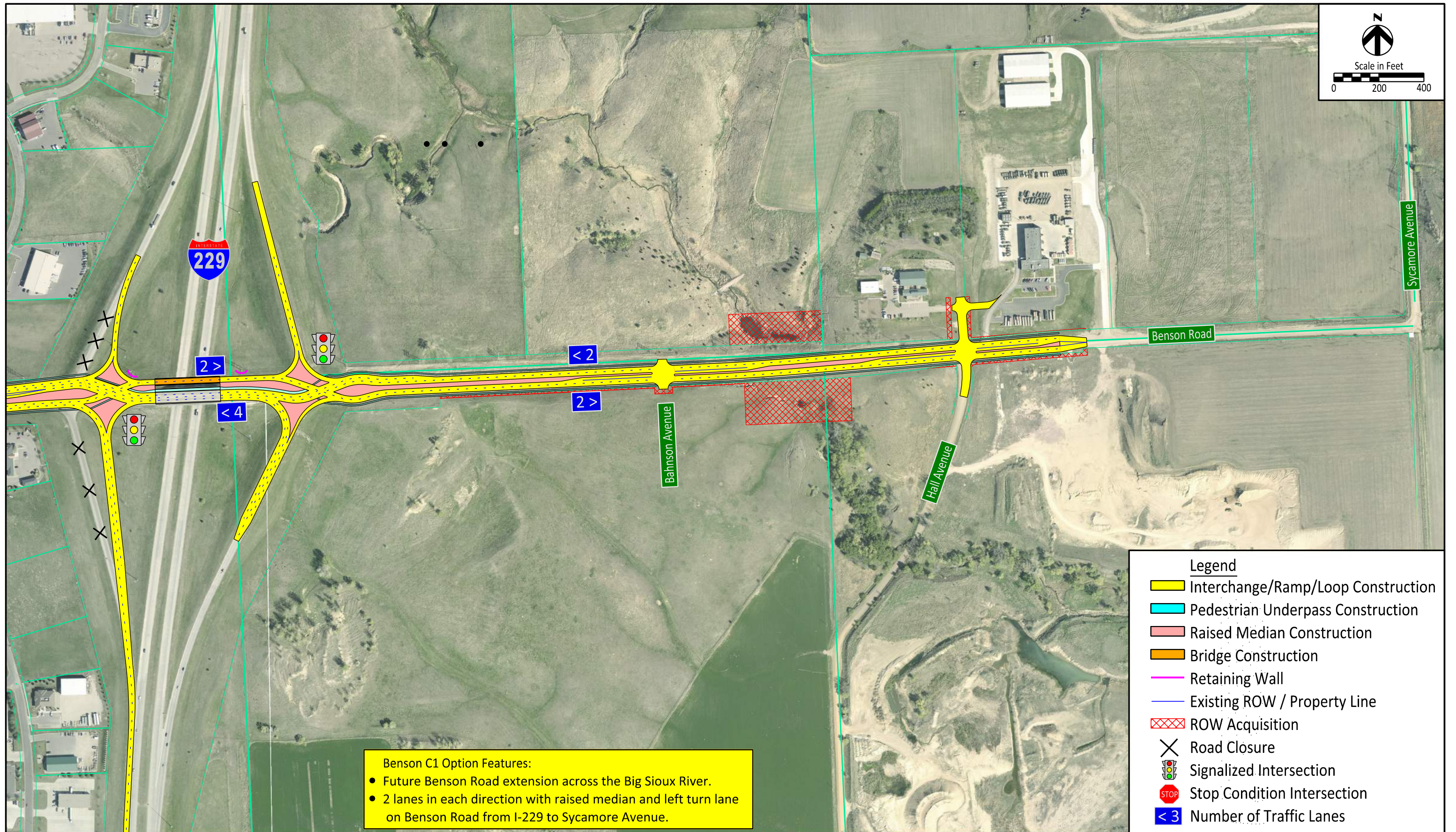


- Benson C1a Option Features:**
- WB 3rd lane from Lewis Avenue to I-229.
 - EB 3rd lane from Casco Avenue to I-229.
 - Raised center median with left turn lanes.
 - Widen Lewis Avenue intersection on south side of Benson Road.
 - WB and EB 3/4 access at Potsdam Avenue.

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Alternative Scenario Benson Road
 Westbound 3rd Lane from Lewis Avenue to I-229.
 I-229 Exit 9 (Benson Road) IMJR



Benson C1 Option Features:

- Future Benson Road extension across the Big Sioux River.
- 2 lanes in each direction with raised median and left turn lane on Benson Road from I-229 to Sycamore Avenue.

- Legend**
- Interchange/Ramp/Loop Construction
 - Pedestrian Underpass Construction
 - Raised Median Construction
 - Bridge Construction
 - Retaining Wall
 - Existing ROW / Property Line
 - ROW Acquisition
 - Road Closure
 - Signalized Intersection
 - Stop Condition Intersection
 - <3> Number of Traffic Lanes

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 Date: 5/14/2018
 Chkd By: P.Sanow
 Date: 5/14/2018
 Revision:



Alternative Scenario Benson Road
 4-Lane Divided Section to Hall Avenue east of I-229.
 I-229 Exit 9 (Benson Road) IMJR