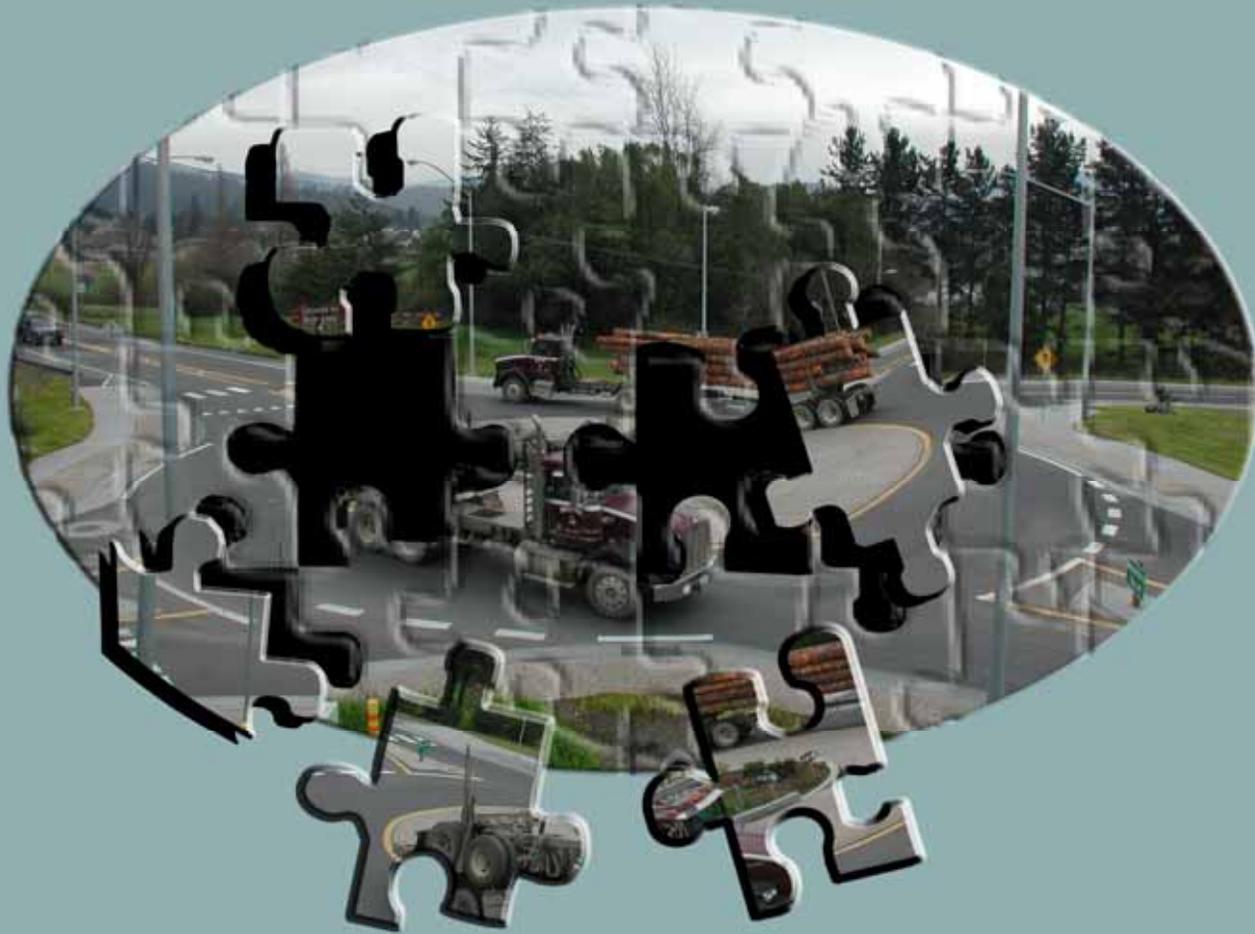


Falling into Place

The Case of the Blue Lake Roundabout



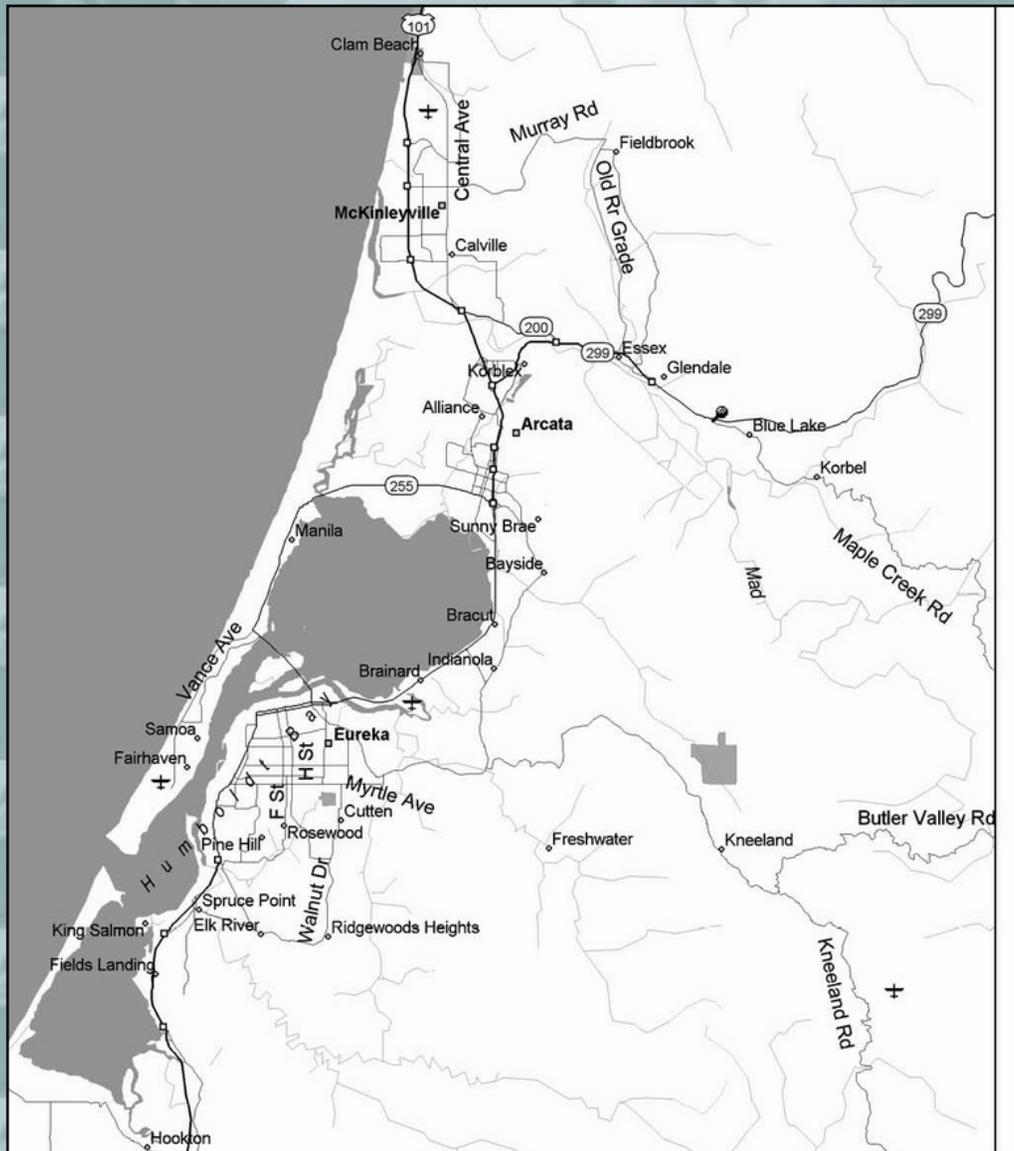
Overview

- Location (proximity to other roundabouts)
- Intersection Characteristics
- Driving force
- Public Process
- Design Process (design vehicles)
- Field Test
- Construction Phasing
- Final Product



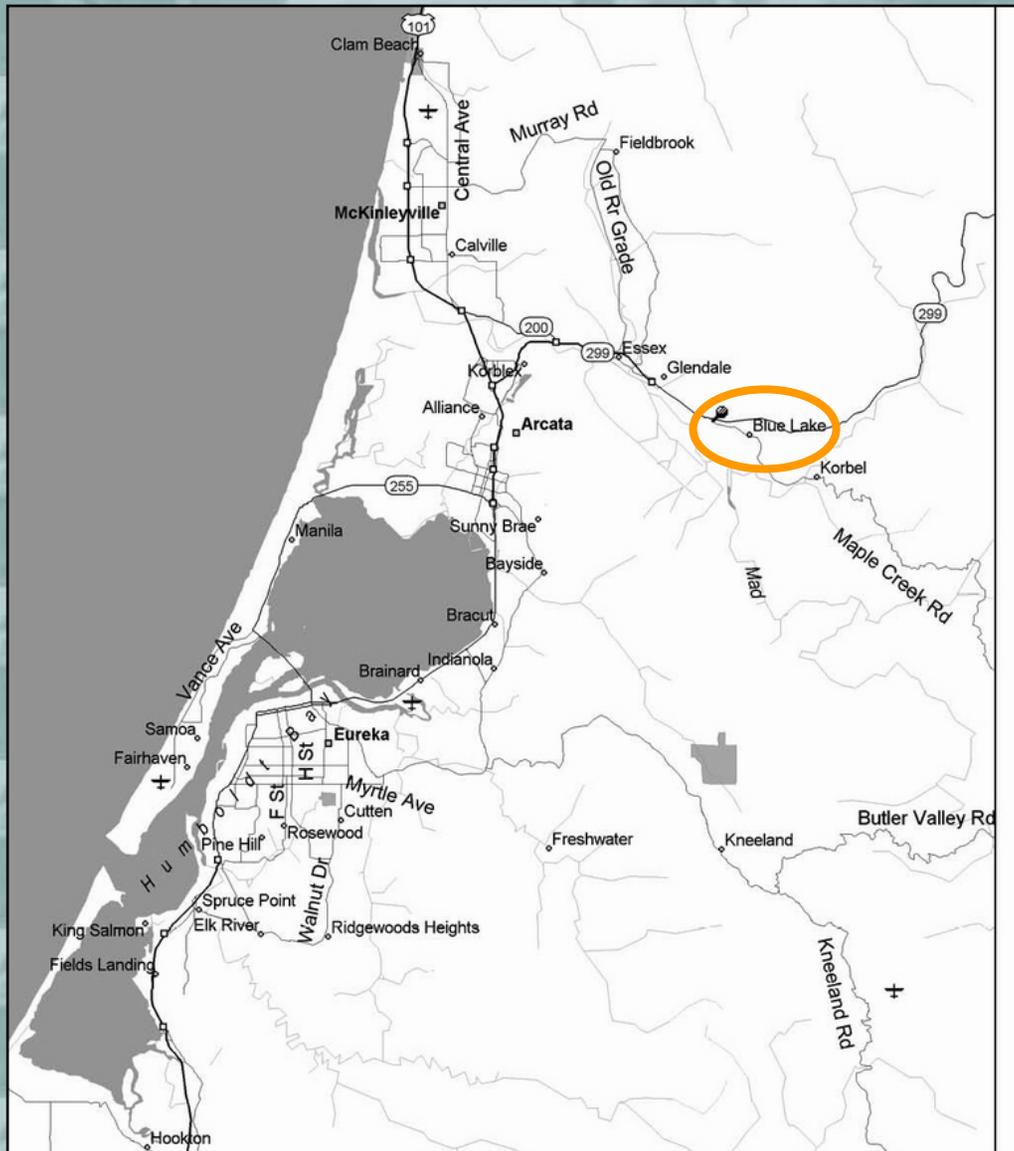
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Setting

- Humboldt County, California
- 8 miles east of Eureka/Arcata
- Gateway to the Blue Lake downtown
- Near an elementary School
- Lumber Mill Traffic

Setting

- Humboldt County, California
- 8 miles east of Eureka/Arcata
- Gateway to the Blue Lake downtown
- Near an elementary School
- Lumber Mill Traffic
- **Near Arcata's roundabouts**





Falling Into Place – The Case of the Blue Lake Roundabout



Intersection Characteristics

- 4-way intersection
- 10,000 entering vehicles per day
- 90 percent in north-south direction
- One leg very low traffic volumes
- Hillside running along one direction

Intersection Characteristics

- 4-way intersection
- 10,000 entering vehicles per day
- 90 percent in north-south direction
- One leg very low traffic volumes
- Hillside running along one direction
- **Empty lot on one corner**

Driving Force

- Blue Lake Rancheria
- 20,000 square foot casino with events
- Add 5,000 vehicles per day to intersection
- Evening events with mass exodus

Driving Force

- Blue Lake Rancheria
- 20,000 square foot casino with events
- Add 5,000 vehicles per day to intersection
- Evening events with mass exodus
- **Willing to fund intersection improvements**

Public Process

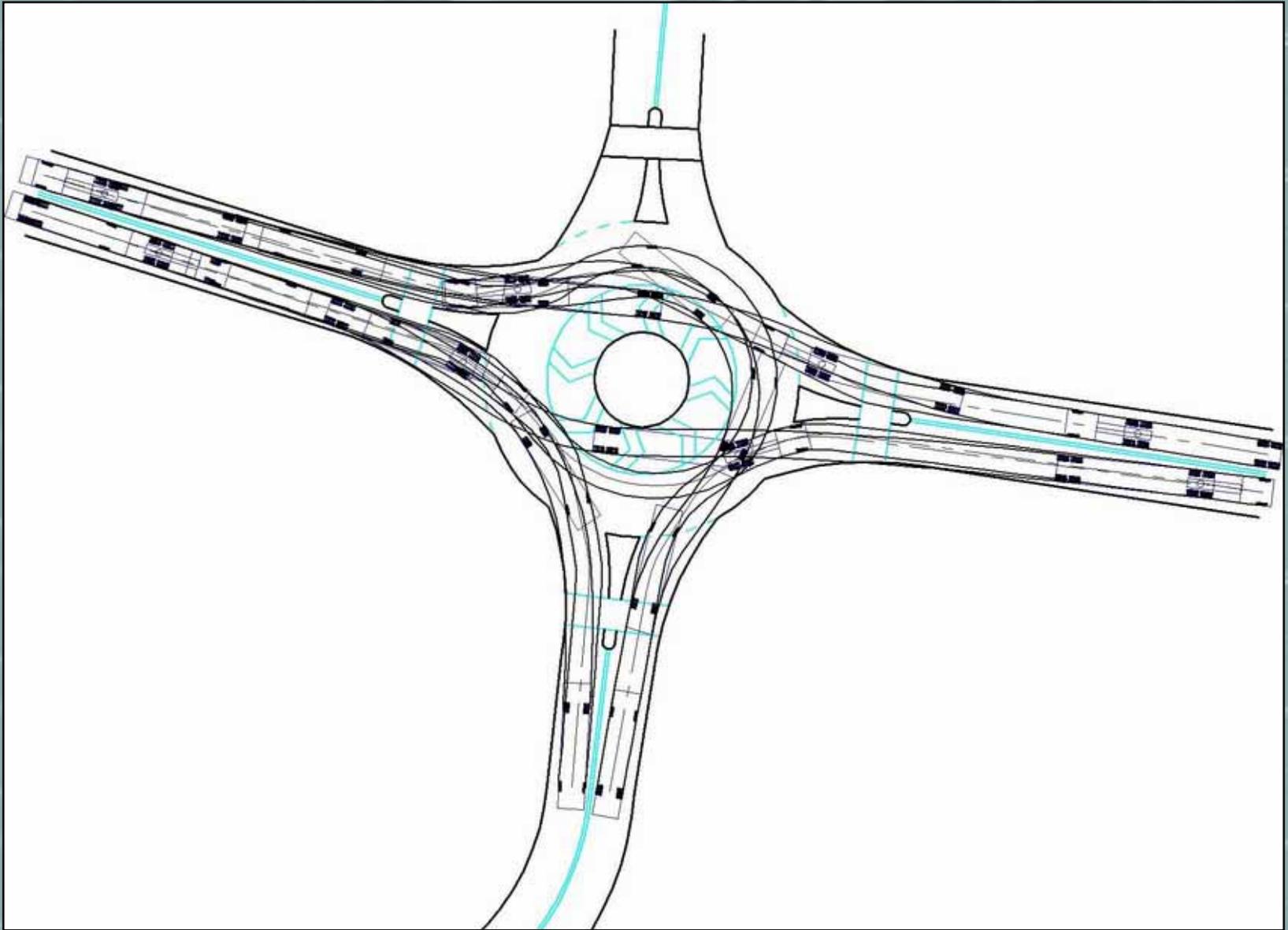
- Concern about traffic signal
- Concern over speed of lumber trucks
- Desire to slow through traffic down
- Concern regarding speed near school

Public Process

- Concern about traffic signal
- Concern over speed of lumber trucks
- Desire to slow through traffic down
- Concern regarding speed near school
- **Supported roundabout**

Design Process

- Limited land
- Reduce speed...but accommodate trucks
- Oh..and also serve the “big one”





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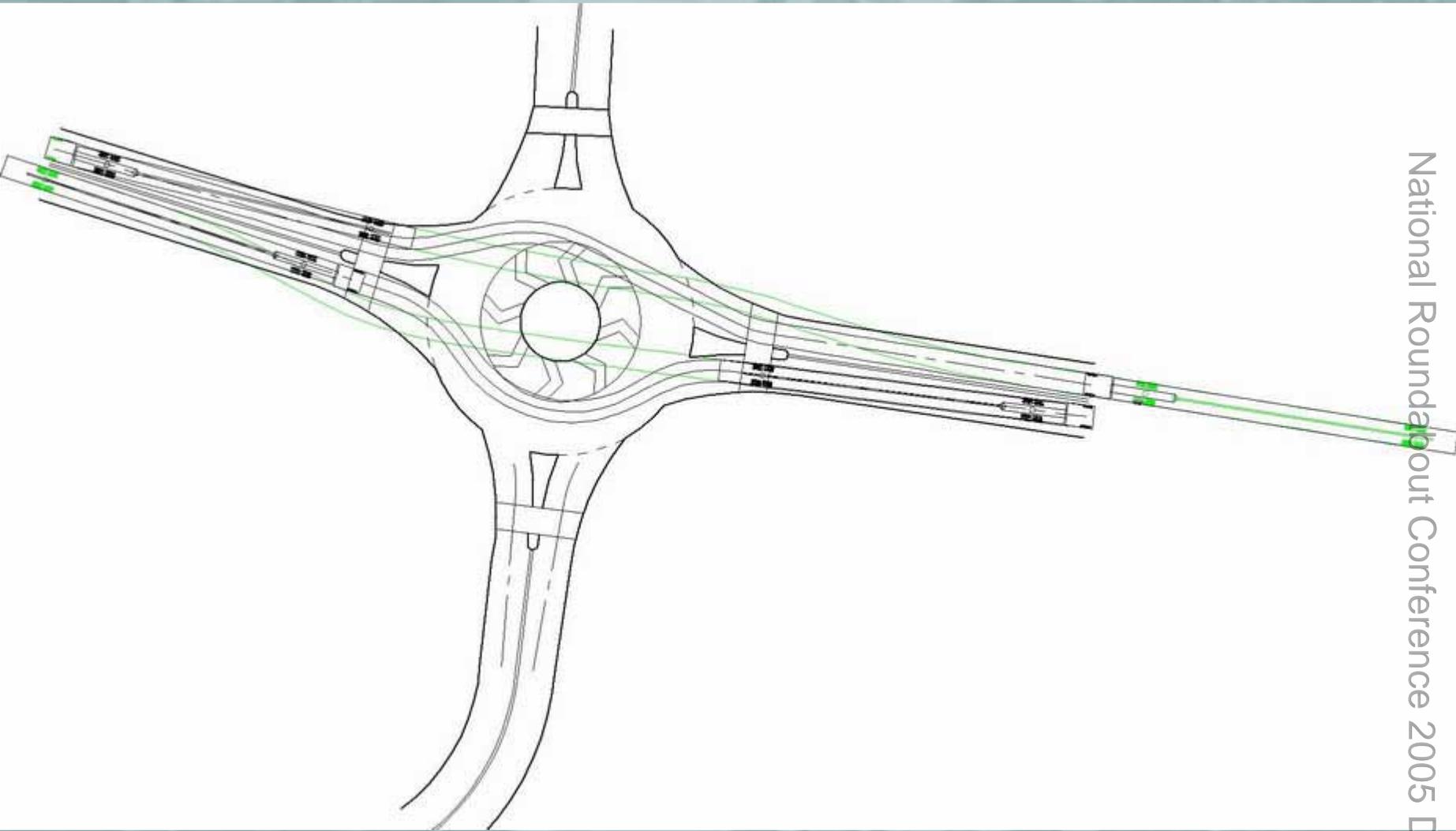


Design Process

- Limited land
- Reduce speed...but accommodate trucks
- Oh..and also serve the “big one”
(Extended Low-Bed Lumber Equipment Carrier)

Design Process

- Limited land
- Reduce speed...but accommodate trucks
- Oh..and also serve the “big one”
(Extended Low-Bed Lumber Equipment Carrier)
- **No turns at intersection**



Falling Into Place – The Case of the Blue Lake Roundabout





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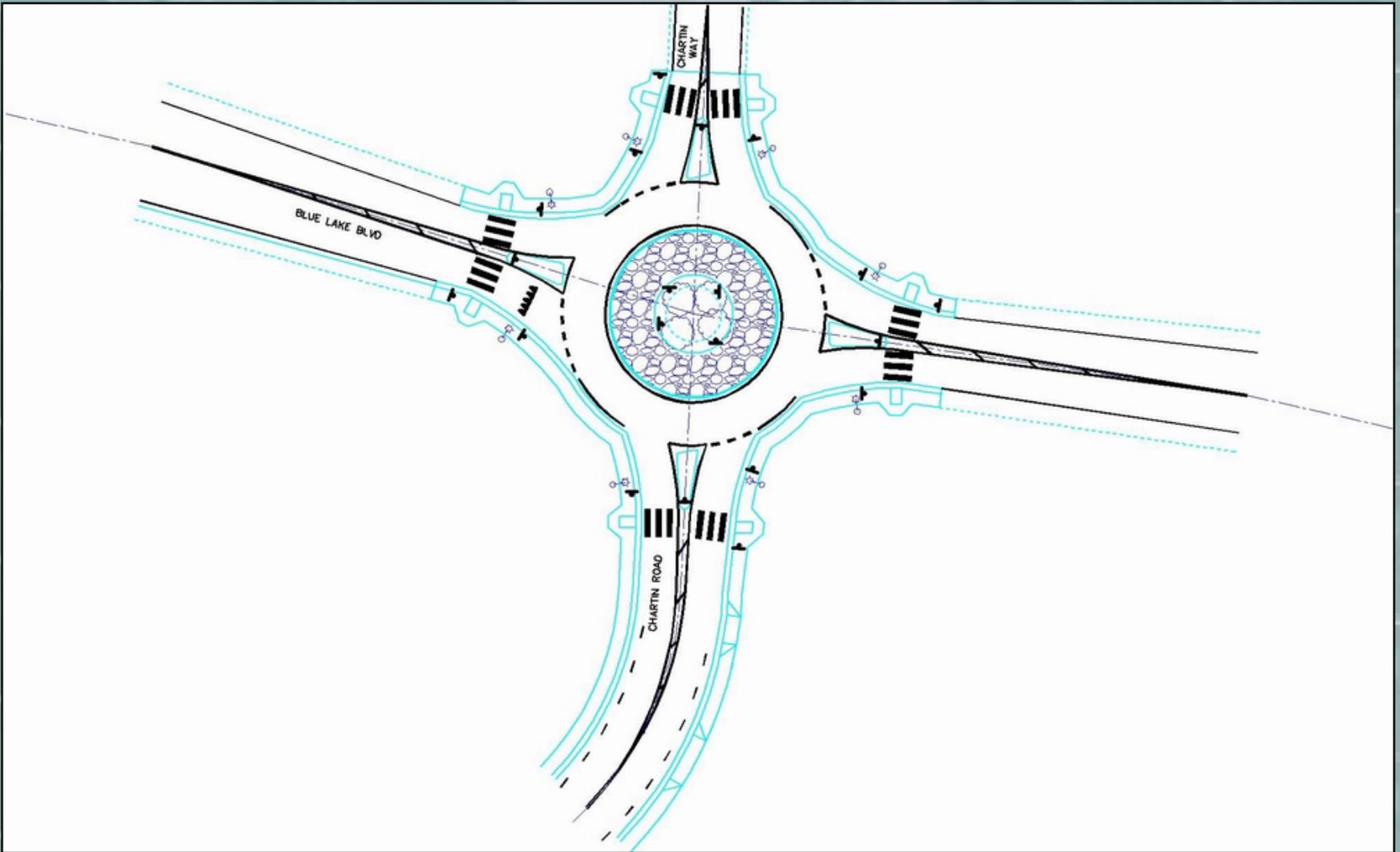
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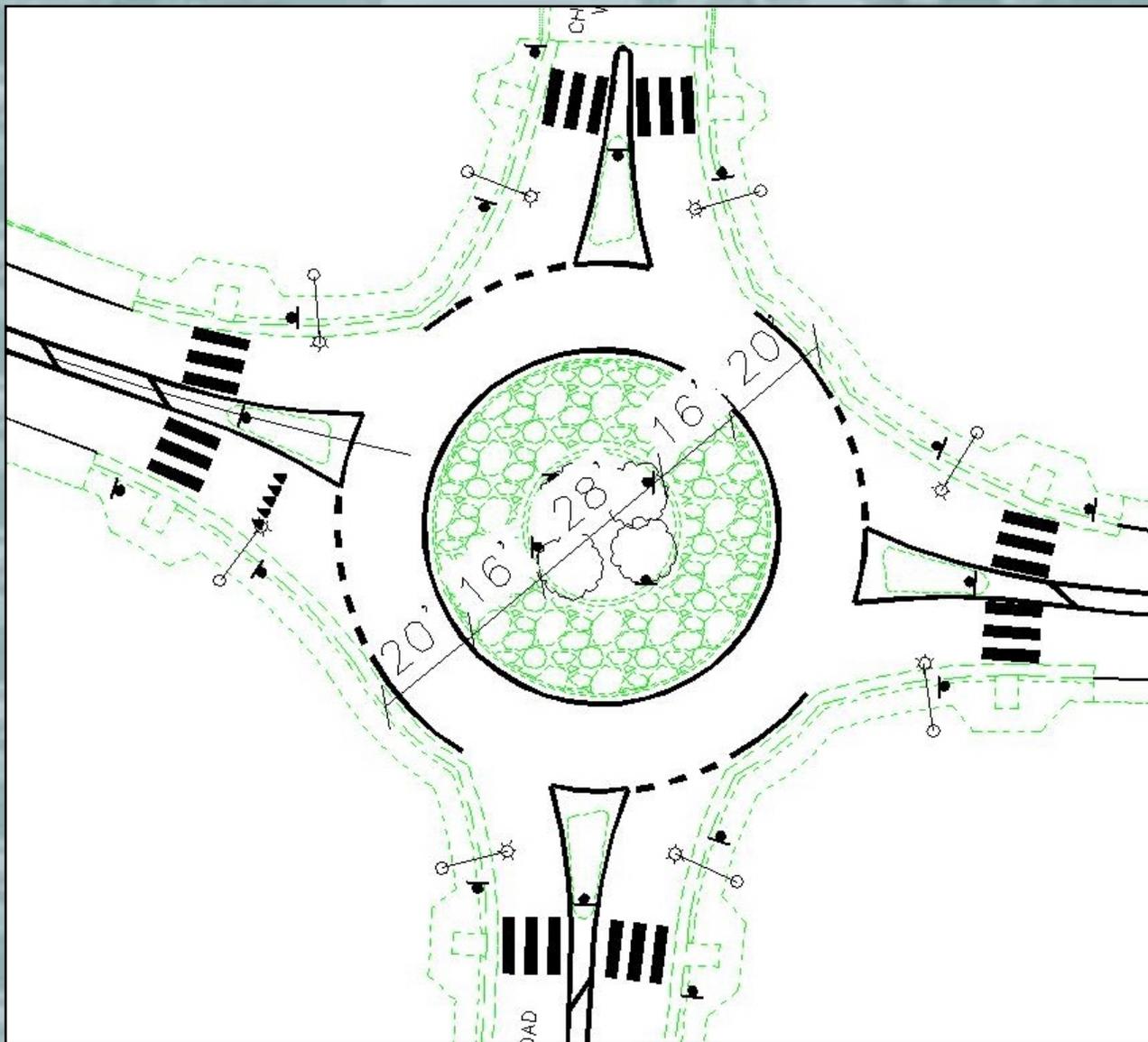
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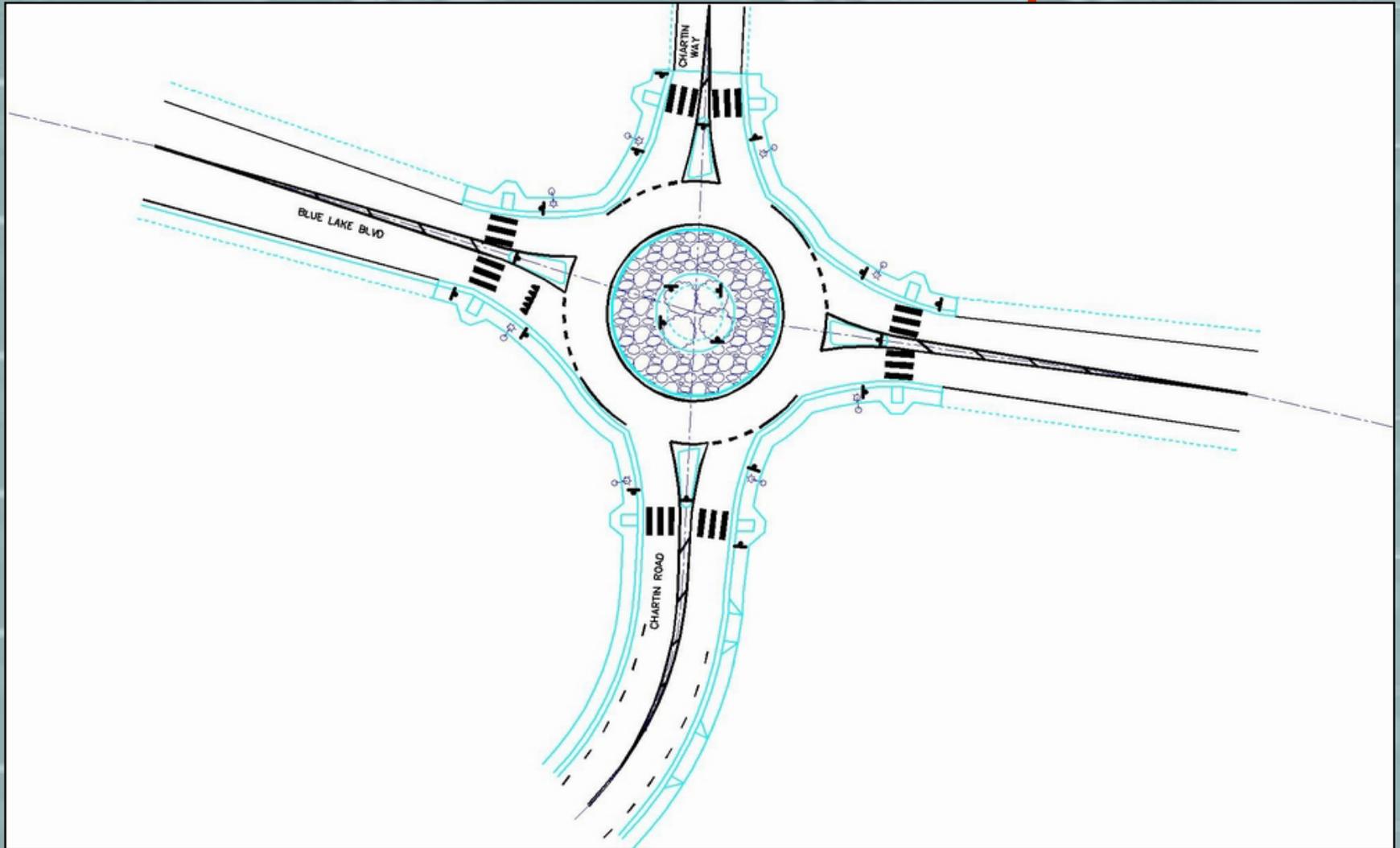


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Construction Phasing

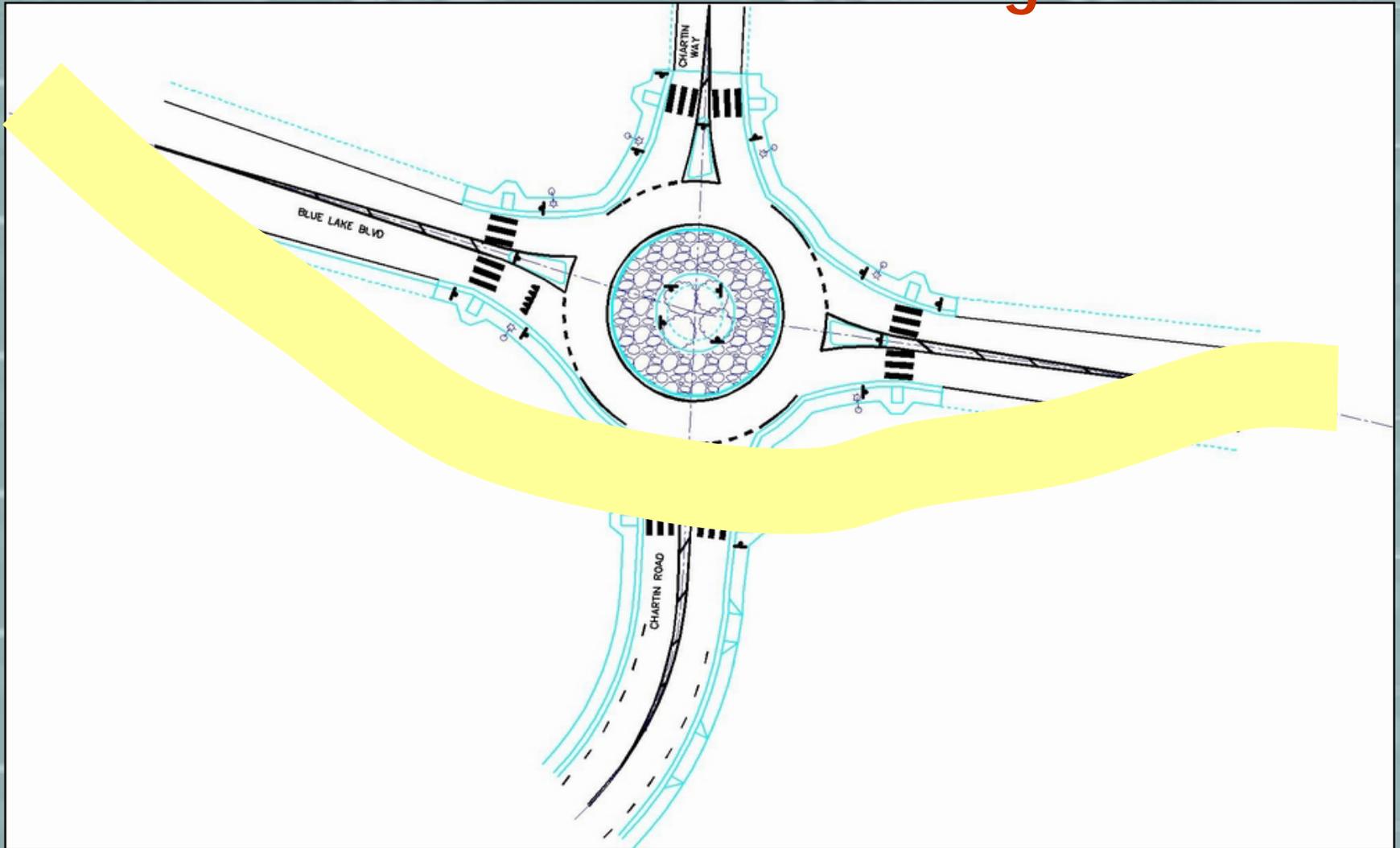


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Construction Phasing



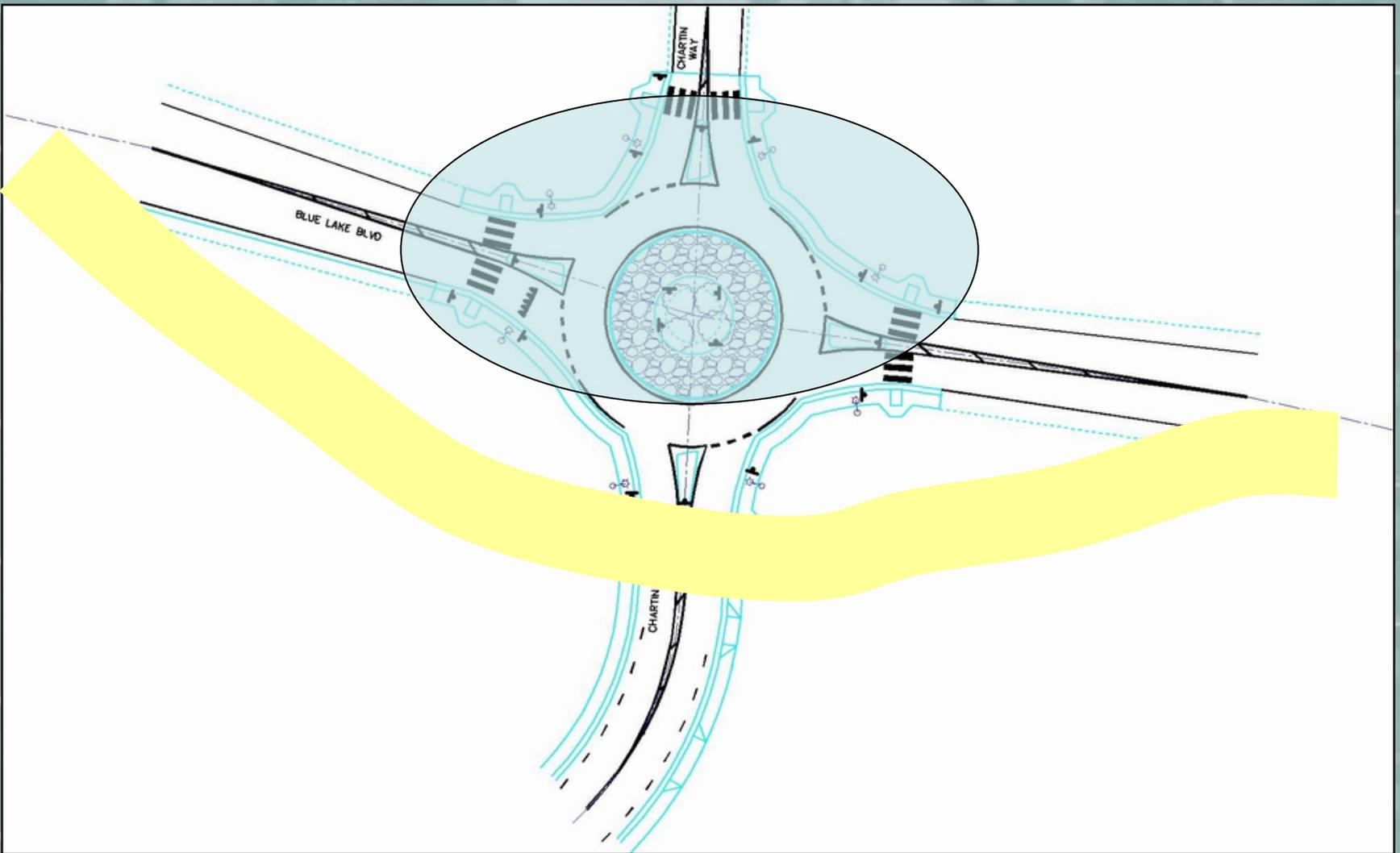
Construction – Phase 1



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Construction – Phase 2



Construction – Phase 2



Construction – Phase 2



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Construction – Phase 2



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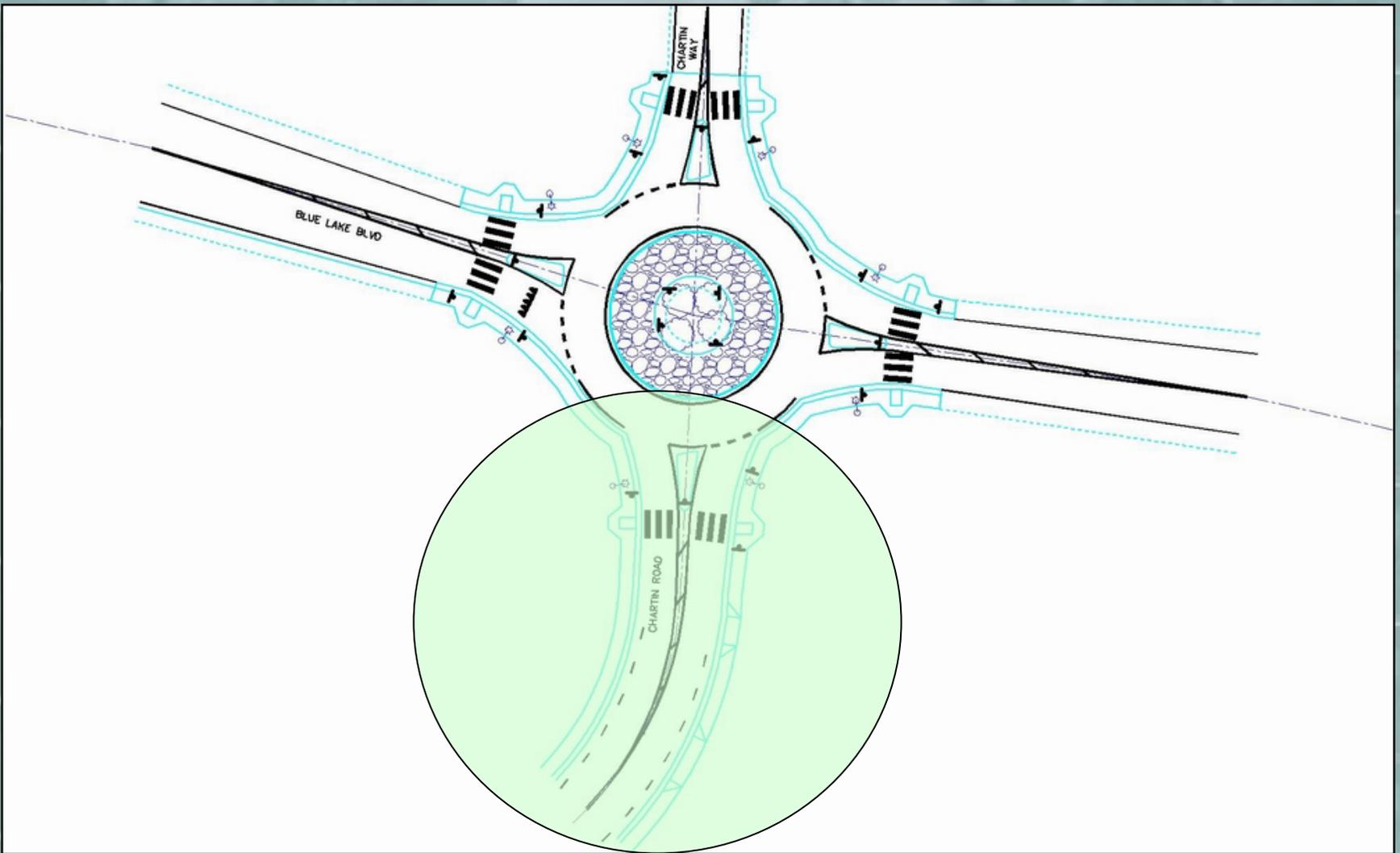


Construction – Phase 2



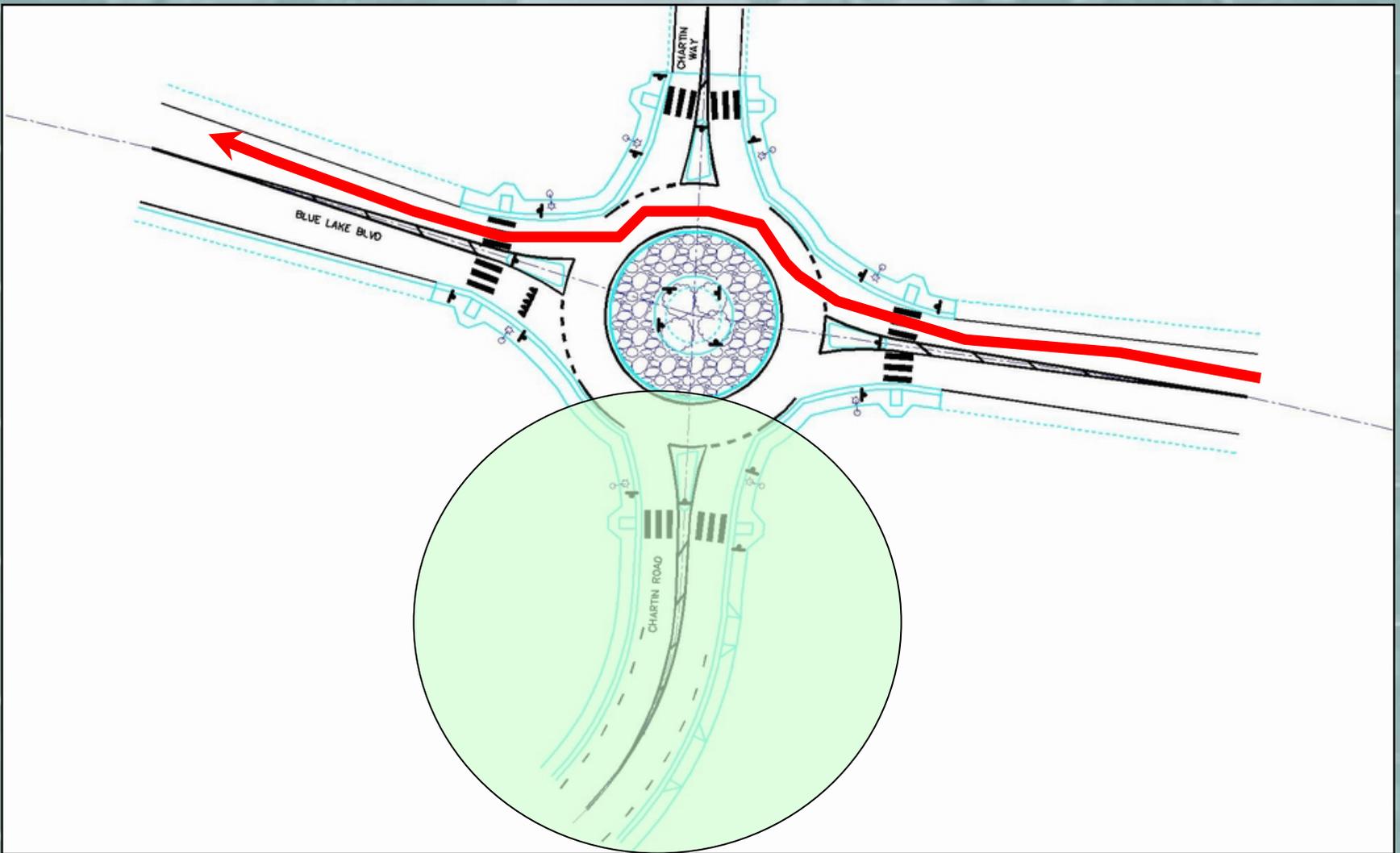
Construction – Phase 2





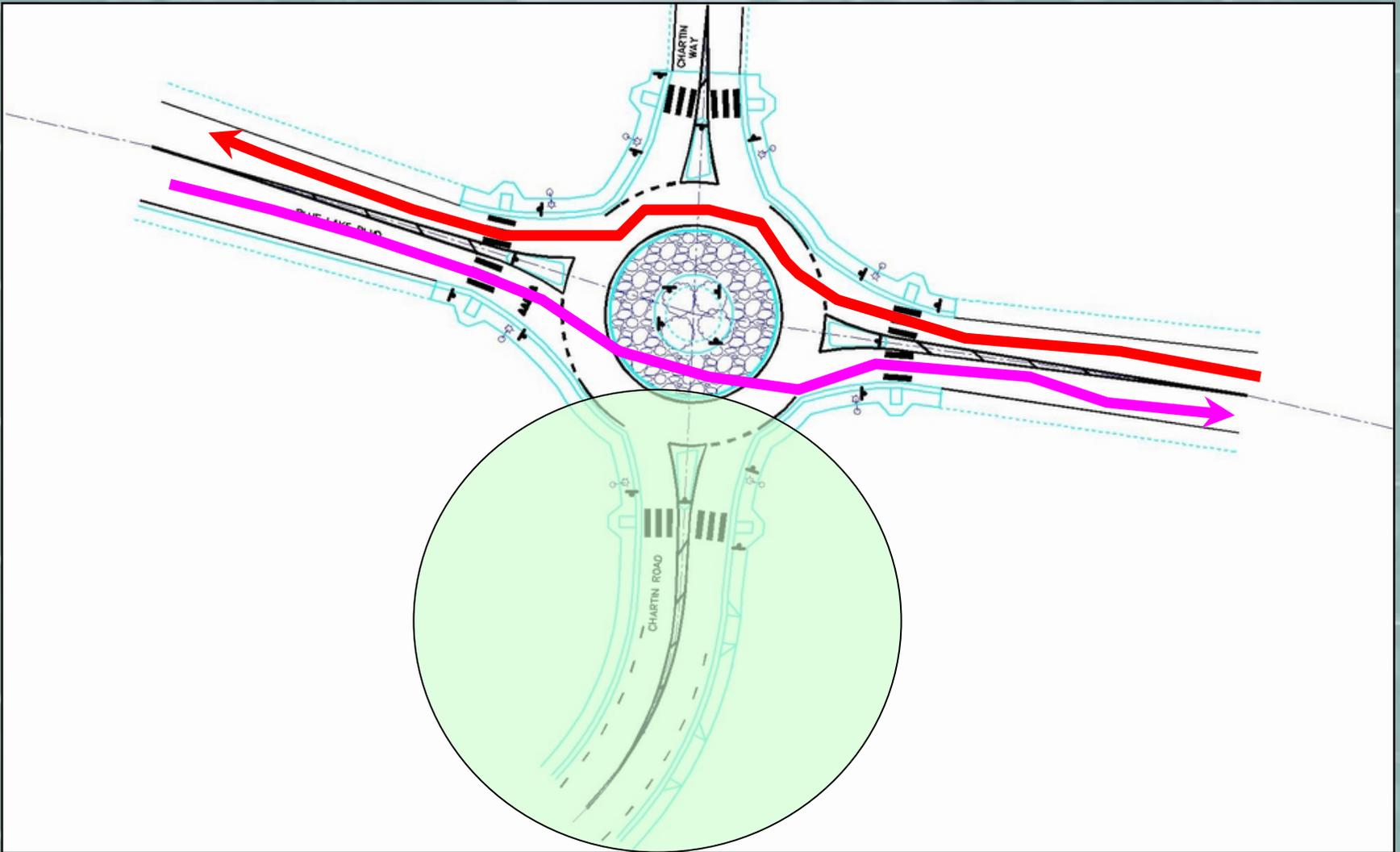
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Construction – Phase 3



Construction – Phase 3



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Construction – Phase 3



Construction – Phase 3



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Construction – Phase 3



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Construction – Phase 3



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Falling Into Place – The Case of the Blue Lake Roundabout



Success

- No reported collisions 2 ½ years
- Virtually no queuing
- Serves the access needs of the casino
- Accommodates lumber vehicles
- Acts as a traffic calming device for traffic entering town.



Falling Into Place – The Case of the Blue Lake Roundabout





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