



# CVTD Driver Training Course



Aerial view of the current CVTD facility

## Proposal Summary

The purpose of this project was to provide a design of a bus driver training course for the Cache Valley Transit District's (CVTD) expansion plans in North Logan, Utah. The project was required to fulfill the following criteria:

- Provide real-world driving experiences
- Be suitable for DOT and Licensing tests
- Be a usable outdoor space for employee recreation and company events

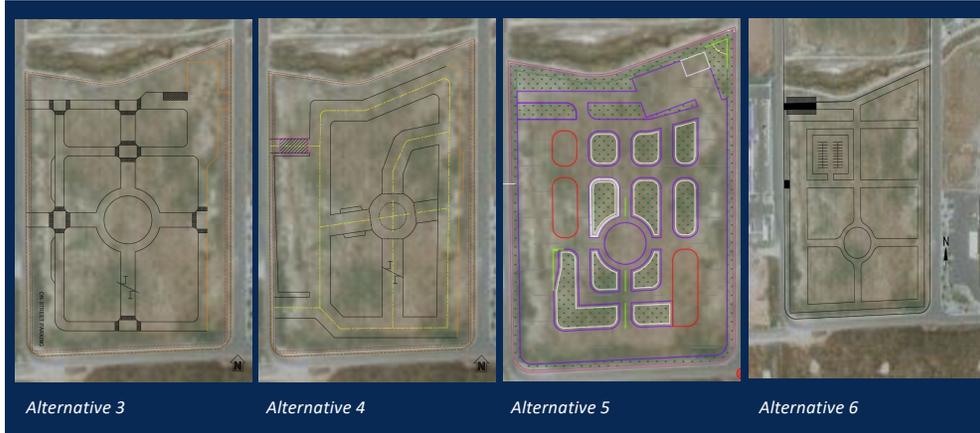


Aerial view of the proposed training course property.

## Alternatives

Our team evaluated 6 different alternatives for training course layouts.

1. Do nothing
  2. Pavement lot
  - 3 - 6. Road network layouts (shown below)
- Alternative 3 was selected based on our Pugh matrix analysis.



## Alternatives Assessment Pugh Matrix

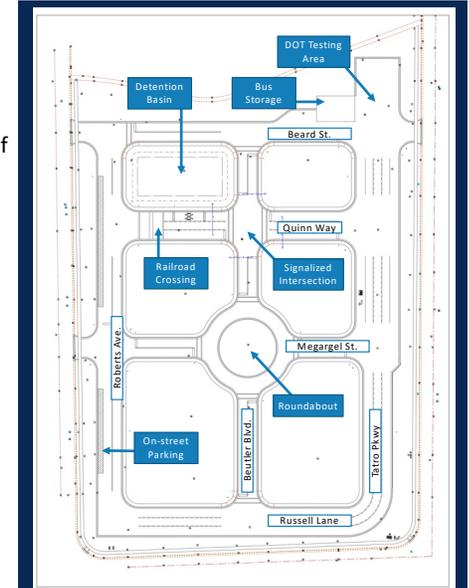
Alternative	1	2	3	4	5	6	
<b>General items</b>							
Cost	2	0	1	1	0	0	high priority (x3)
Environmental impact	2	0	2	1	2	1	med priority (x2)
Meets DOT Req.	2	2	2	2	2	2	low priority (x1)
<b>Ranked Driving Elements</b>							
Adaptability	1	2	1	2	1	1	
Railroad Crossing	0	1	2	2	2	2	
Bike lane, markings, crosswalk	0	1	1	1	1	1	
4-Way Stop intersection	0	1	2	2	2	2	
Shoulder/in-lane bus stop	1	1	2	2	2	2	
Soft shoulder bus stop	0	0	2	2	1	1	
Signalized intersection	0	0	1	2	1	2	
Lane Change	0	2	1	1	2	2	
<b>Other Elements</b>							
"On-street" parking	0	1	2	0	1	0	
Space for small garage	0	2	2	2	0	2	
Roundabout intersection	0	1	2	1	1	2	
Green space/walking path	0	0	2	2	1	1	
Fencing/natural barriers	1	2	1	2	1	1	
Snow removal accommodations	2	2	1	1	1	1	
<b>Score</b>							
	Total	30	36	53	52	44	44

## Design

The third alternative was tweaked during design to better meet the needs of CVTD. These included:

- Use of APWA Type D curb
- Relocation of Railroad Crossing
- Sidewalk added only on edge of inner portions of road network.

Final design is shown to the right.



Final Course Design



Rendering of course railroad crossing.



Rendering of course roundabout intersection.