ase	<u>Challenge</u>	Course	<u>Metric</u>	Target Score Criteria	Max Points	Min Points	Max Occurrences		Metric Notes
			AutoDrive Challe	enge Scoring Rubric - v2	020.	1			
				Static Events					
	Social		Report Score		50	0			None
	Responsibility								
	Social		Evaluation Score		50	0			None
	Responsibility Concept Design		Report Score		150	0			None
	Concept Design		Evaluation Score		50	0			None
	Static Events			Total Score:	300				
				nical & Safety Reports					
	Roof Rack		None		0	0			None
	Antenna Mounting Year 3 Updates		Report Score		20	0		0	None
	Autonomous		Report Score		30	0	•		None
	Vehicle Safety						~0		
	Assessment								
	Technical & Safety Reports			Total Score:	50		~		
	,					-	0		
			MathWor	ks Simulation Challenge		0			
	MathWorks		Total Score		50	0			None
	Simulation				0	Ť			
	Challenge MathWorks				0				
	Simulation			Total Score:	50				
	Challenge								
			Di	ynamic Challenge					
	Dynamia	*	Per-Segment Metrics	Accumulate per-segment points from 10	600	0	10	60	
DC.x	Dynamic Challenge		rei-Segment Metrics	segments across 3 scored days.	000	Ů	10	00	
00 DNE4	Dynamic	*	Time Limit	Teams have one 20 minute window to complete	0	-240	1		DNF - All points in a day's route obtained
DC.DNF1	Challenge			the route. A route may contain between 2 and 4 segments.					after the DNF occurs will be forfeited.
	Dynamic								
					600				
	Challenge			Total Score:	600				
	Challenge		Po	Total Score: er-Segment Metrics:	600				Point distribution in this category wi
DC.x.1	Challenge		Po Object Perception & Interaction		32				vary, depending on the objects encountered on each segment. Each
DC.x.1	Challenge								vary, depending on the objects encountered on each segment. Each occurrence will be equally weighted a
DC.x.1	Dynamic	(Each		er-Segment Metrics: Green: Decelerate if necessary for acceleration					vary, depending on the objects encountered on each segment. Each occurrence will be equally weighted a
DC.x.1		Segment of 10	Object Perception & Interaction	er-Segment Metrics:					vary, depending on the objects encountered on each segment. Each occurrence will be equally weighted a
	Dynamic		Object Perception & Interaction	Green: Decelerate if necessary for acceleration metrics, but do not stop. Solid Red: Come to a complete stop within 3 meters of the limit line preceding the intersection,					vary, depending on the objects encountered on each segment. Each occurrence will be equally weighted a
	Dynamic	Segment of 10	Object Perception & Interaction	Green: Decelerate if necessary for acceleration metrics, but do not stop. Solid Red: Come to a complete stop within 3 meters of the limit line preceding the intersection, with no part of the vehicle past the limit line. Remain stopped until legally allowed to proceed.					vary, depending on the objects encountered on each segment. Each occurrence will be equally weighted a
	Dynamic	Segment of 10	Object Perception & Interaction	Green: Decelerate if necessary for acceleration metrics, but do not stop. Solid Red: Come to a complete stop within 3 meters of the limit line preceding the intersection, with no part of the vehicle past the limit line. Hemain stopped until legally allowed to proceed. Flashing Red: Come to a complete stop within 3					vary, depending on the objects encountered on each segment. Each occurrence will be equally weighted a
	Dynamic	Segment of 10	Object Perception & Interaction	Green: Decelerate if necessary for acceleration metrics, but do not stop. Solid Red: Come to a complete stop within 3 meters of the limit line preceding the intersection, with no part of the vehicle past the limit line. Remain stopped until legally allowed to proceed. Flashing Red: Come to a complete stop within 3 meters of the limit line preceding the intersection, with no part of the vehicle past the limit line.					vary, depending on the objects encountered on each segment. Each occurrence will be equally weighted a
	Dynamic Challenge	Segment of 10 total)	Object Perception & Interaction React Properly to Signal	Green: Decelerate if necessary for acceleration metrics, but do not stop. Solid Red: Come to a complete stop within 3 meters of the limit line preceding the intersection, with no part of the vehicle past the limit line. Hemain stopped until legally allowed to proceed. Flashing Red: Come to a complete stop within 3 meters of the limit line preceding the intersection, with no part of the vehicle past the limit line. Remain stopped until legally allowed to proceed.					vary, depending on the objects encountered on each segment. Each occurrence will be equally weighted a
	Dynamic	Segment of 10	Object Perception & Interaction	Green: Decelerate if necessary for acceleration metrics, but do not stop. Solid Red: Come to a complete stop within 3 meters of the limit line preceding the intersection, with no part of the vehicle past the limit line. Remain stopped until legally allowed to proceed. Flashing Red: Come to a complete stop within 3 meters of the limit line preceding the intersection, with no part of the vehicle past the limit line. Remain stopped until legally allowed to proceed. Stop Sign: Come to a complete stop no more than 3 meters before any applicable limit line[1],					vary, depending on the objects encountered on each segment. Each occurrence will be equally weighted a sum to 32 points for any given segme Competitors will also see other types of traffic control signage which will not be
	Dynamic Challenge Dynamic	Segment of 10 total)	Object Perception & Interaction React Properly to Signal	Green: Decelerate if necessary for acceleration metrics, but do not stop. Solid Red: Come to a complete stop within 3 meters of the limit line preceding the intersection, with no part of the vehicle past the limit line. Remain stopped until legally allowed to proceed. Flashing Red: Come to a complete stop within 3 meters of the limit line preceding the intersection, with no part of the vehicle past the limit line. Remain stopped until legally allowed to proceed. Stop Sign: Come to a complete stop no more					vary, depending on the objects encountered on each segment. Each occurrence will be equally weighted a sum to 32 points for any given segment of the segment
DC.x.1.1	Dynamic Challenge Dynamic	Segment of 10 total) (Each Segment of 10	Object Perception & Interaction React Properly to Signal	Green: Decelerate if necessary for acceleration metrics, but do not stop. Solid Red: Come to a complete stop within 3 meters of the limit line preceding the intersection, with no part of the vehicle past the limit line. Bemain stopped until legally allowed to proceed. Flashing Red: Come to a complete stop within 3 meters of the limit line preceding the intersection, with no part of the vehicle past the limit line. Remain stopped until legally allowed to proceed. Stop Sign: Come to a complete stop no more than 3 meters before any applicable limit line[1], and proceed into the intersection when safe and legal to do so.					vary, depending on the objects encountered on each segment. Each occurrence will be equally weighted a sum to 32 points for any given segme Competitors will also see other types of traffic control signage which will not be
DC.x.1.1	Dynamic Challenge Dynamic	Segment of 10 total) (Each Segment of 10	Object Perception & Interaction React Properly to Signal	Green: Decelerate if necessary for acceleration metrics, but do not stop. Solid Red: Come to a complete stop within 3 meters of the limit line preceding the intersection, with no part of the vehicle past the limit line. Remain stopped until legally allowed to proceed. Flashing Red: Come to a complete stop within 3 meters of the limit line preceding the intersection, with no part of the vehicle past the limit line. Remain stopped until legally allowed to proceed. Stop Sign: Come to a complete stop no more than 3 meters before any applicable limit line[1], and proceed into the intersection when safe and legal to do so.					vary, depending on the objects encountered on each segment. Each occurrence will be equally weighted a sum to 32 points for any given segme Competitors will also see other types of traffic control signage which will not be
DC.x.1.1	Dynamic Challenge Dynamic	Segment of 10 total) (Each Segment of 10	Object Perception & Interaction React Properly to Signal	Green: Decelerate if necessary for acceleration metrics, but do not stop. Solid Red: Come to a complete stop within 3 meters of the limit line preceding the intersection, with no part of the vehicle past the limit line. Remain stopped until legally allowed to proceed. Flashing Red: Come to a complete stop within 3 meters of the limit line preceding the intersection, with no part of the vehicle past the limit line. Remain stopped until legally allowed to proceed. Stop Sign: Come to a complete stop on more than 3 meters before any applicable limit line[1], and proceed into the intersection when safe and legal to do so. Turn Only: Complete a required turn as mandated by a Left Turn Only or Right Turn Only sign. 1. If no explicit limit line is painted, vehicles shall					vary, depending on the objects encountered on each segment. Each occurrence will be equally weighted a sum to 32 points for any given segme Competitors will also see other types of traffic control signage which will not be
DC.x.1.1	Dynamic Challenge Dynamic	Segment of 10 total) (Each Segment of 10	Object Perception & Interaction React Properly to Signal	Green: Decelerate if necessary for acceleration metrics, but do not stop. Solid Red: Come to a complete stop within 3 meters of the limit line preceding the intersection, with no part of the vehicle past the limit line. Remain stopped until legally allowed to proceed. Flashing Red: Come to a complete stop within 3 meters of the limit line preceding the intersection, with no part of the vehicle past the limit line. Remain stopped until legally allowed to proceed. Stop Sign: Come to a complete stop no more than 3 meters before any applicable limit line[1], and proceed into the intersection when safe and legal to do so. Turn Only: Complete a required turn as mandated by a Left Turn Only or Right Turn Only sign.					vary, depending on the objects encountered on each segment. Each occurrence will be equally weighted a sum to 32 points for any given segme Competitors will also see other types of traffic control signage which will not be
DC.x.1.1	Dynamic Challenge Dynamic Challenge	Segment of 10 total) (Each Segment of 10 total) (Each	Object Perception & Interaction React Properly to Signal React Properly to Traffic Control Signage	Green: Decelerate if necessary for acceleration metrics, but do not stop. Solid Red: Come to a complete stop within 3 meters of the limit line preceding the intersection, with no part of the vehicle past the limit line. Remain stopped until legally allowed to proceed. Flashing Red: Come to a complete stop within 3 meters of the limit line preceding the intersection, with no part of the vehicle past the limit line. Remain stopped until legally allowed to proceed. Stop Sign: Come to a complete stop no more than 3 meters before any applicable limit line; 11, and proceed into the intersection when safe and legal to do so. Turn Only: Complete a required turn as mandated by a Left Turn Only or Right Turn Only sign. 1. If no explicit limit line is painted, vehicles shall interpret the plane of the sign as the limit line. Vehicle must enter and exit uncontrolled					vary, depending on the objects encountered on each segment. Each occurrence will be equally weighted a sum to 32 points for any given segme Competitors will also see other types of traffic control signage which will not be
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DC.x.1.1 DC.x.1.2	Dynamic Challenge Dynamic Challenge Dynamic Challenge Dynamic Challenge	(Each Segment of 10 total)	Object Perception & Interaction React Properly to Signal React Properly to Traffic Control Signage React Properly to Uncontrolled Intersection Avoid Static Objects	Green: Decelerate if necessary for acceleration metrics, but do not stop. Solid Red: Come to a complete stop within 3 meters of the limit line preceding the intersection, with no part of the vehicle past the limit line. Remain stopped until legally allowed to proceed. Flashing Red: Come to a complete stop within 3 meters of the limit line preceding the intersection, with no part of the vehicle past the limit line. Remain stopped until legally allowed to proceed. Stop Sign: Come to a complete stop no more than 3 meters before any applicable limit line. Remain stopped until legally allowed to proceed. Stop Sign: Come to a complete stop no more than 3 meters before any applicable limit line[1], and proceed into the intersection when safe and legal to do so. Turn Only: Complete a required turn as mandated by a Left Turn Only or Right Turn Only sign. 1. If no explicit limit line is painted, vehicles shall interpret the plane of the sign as the limit line. Vehicle must enter and exit uncontrolled intersections without stopping. Bicycles: Vehicle must remain a minimum of 3 feet from all bicyclists. Other: Avoid colliding with any static object obstructing the vehicle's path of travel.					vary, depending on the objects encountered on each segment. Each occurrence will be equally weighted a sum to 32 points for any given segme Competitors will also see other types of traffic control signage which will not be scored by this metric.
DC.x.1.1 DC.x.1.2	Dynamic Challenge Dynamic Challenge Dynamic Challenge Dynamic Challenge Dynamic Challenge	(Each Segment of 10 total)	Object Perception & Interaction React Properly to Signal React Properly to Traffic Control Signage React Properly to Uncontrolled Intersection	Green: Decelerate if necessary for acceleration metrics, but do not stop. Solid Red: Come to a complete stop within 3 meters of the limit line preceding the intersection, with no part of the vehicle past the limit line. Remain stopped until legally allowed to proceed. Flashing Red: Come to a complete stop within 3 meters of the limit line preceding the intersection, with no part of the vehicle past the limit line. Remain stopped until legally allowed to proceed. Stop Sign: Come to a complete stop no more than 3 meters before any applicable limit line. Remain stopped until legally allowed to proceed. Stop Sign: Come to a complete stop no more than 3 meters before any applicable limit line. In and proceed into the intersection when safe and legal to do so. Turn Only: Complete a required turn as mandated by a Left Turn Only or Right Turn Only sign. 1. If no explicit limit line is painted, vehicles shall interpret the plane of the sign as the limit line. Vehicle must enter and exit uncontrolled intersections without stopping. Bicycles: Vehicle must remain a minimum of 3 feet from all bicyclists. Other: Avoid colliding with any static object					vary, depending on the objects encountered on each segment. Each occurrence will be equally weighted at sum to 32 points for any given segment. Competitors will also see other types of traffic control signage which will not be scored by this metric. Competitors will not be penalized for exceeding deceleration limits to avoid
DC.x.1.1 DC.x.1.2	Dynamic Challenge Dynamic Challenge Dynamic Challenge Dynamic Challenge	(Each Segment of 10 total)	Object Perception & Interaction React Properly to Signal React Properly to Traffic Control Signage React Properly to Uncontrolled Intersection Avoid Static Objects	Green: Decelerate if necessary for acceleration metrics, but do not stop. Solid Red: Come to a complete stop within 3 meters of the limit line preceding the intersection, with no part of the vehicle past the limit line. Remain stopped until legally allowed to proceed. Flashing Red: Come to a complete stop within 3 meters of the limit line preceding the intersection, with no part of the vehicle past the limit line. Remain stopped until legally allowed to proceed. Stop Sign: Come to a complete stop within 3 meters of the initil line; and proceed into the intersection when safe and legal to do so. Turn Only: Come to a complete stop no more than 3 meters before any applicable limit line[1], and proceed into the intersection when safe and legal to do so. Turn Only: Complete a required turn as mandated by a Left Turn Only or Right Turn Only sign. 1. If no explicit limit line is painted, vehicles shall interpret the plane of the sign as the limit line. Vehicle must enter and exit uncontrolled intersections without stopping. Bicycles: Vehicle must remain a minimum of 3 feet from all bicyclists. Other: Avoid colliding with any static object obstructing the vehicle's path of travel. Pedestrians: When required to stop[1], vehicles must stop before the limit line preceding the crosswalk, with no part of the vehicle past the limit					vary, depending on the objects encountered on each segment. Each occurrence will be equally weighted a sum to 32 points for any given segme Competitors will also see other types of traffic control signage which will not be scored by this metric. Competitors will not be pensilized for
DC.x.1.1 DC.x.1.2	Dynamic Challenge Dynamic Challenge Dynamic Challenge Dynamic Challenge Dynamic Challenge	(Each Segment of 10 total) (Each Segment of 10 total)	Object Perception & Interaction React Properly to Signal React Properly to Traffic Control Signage React Properly to Uncontrolled Intersection Avoid Static Objects	Green: Decelerate if necessary for acceleration metrics, but do not stop. Solid Red: Come to a complete stop within 3 meters of the limit line preceding the intersection, with no part of the vehicle past the limit line. Remain stopped until legally allowed to proceed. Flashing Red: Come to a complete stop within 3 meters of the limit line preceding the intersection, with no part of the vehicle past the limit line. Remain stopped until legally allowed to proceed. Stop Sign: Come to a complete stop no more than 3 meters before any applicable limit line[1], and proceed into the intersection when safe and legal to do so. Turn Only: Complete a required turn as mandated by a Left Turn Only or Right Turn Only sign. 1. If no explicit limit line is painted, vehicles shall interpret the plane of the sign as the limit line. Vehicle must enter and exit uncontrolled intersections without stopping. Bicycles: Vehicle must remain a minimum of 3 feet from all bicyclists. Other: Avoid colliding with any static object obstructing the vehicle's path of travel. Pedestrians: When required to stop[1], vehicles must stop before the limit line preceding the crosswalk, with no part of the vehicle past the limit limit[2], and allow the pedestrian to completely					vary, depending on the objects encountered on each segment. Each occurrence will be equally weighted a sum to 32 points for any given segme Competitors will also see other types of traffic control signage which will not be scored by this metric. Competitors will not be penalized for exceeding deceleration limits to avoid
DC.x.1.1	Dynamic Challenge Dynamic Challenge Dynamic Challenge Dynamic Challenge Dynamic Challenge	(Each Segment of 10 total) (Each Segment of 10 total)	Object Perception & Interaction React Properly to Signal React Properly to Traffic Control Signage React Properly to Uncontrolled Intersection Avoid Static Objects	Green: Decelerate if necessary for acceleration metrics, but do not stop. Solid Red: Come to a complete stop within 3 meters of the limit line preceding the intersection, with no part of the vehicle past the limit line. Remain stopped until legally allowed to proceed. Flashing Red: Come to a complete stop within 3 meters of the limit line preceding the intersection, with no part of the vehicle past the limit line. Remain stopped until legally allowed to proceed. Stop Sign: Come to a complete stop within 3 meters before any applicable limit line. Remain stopped until legally allowed to proceed. Stop Sign: Come to a complete stop no more than 3 meters before any applicable limit line[1], and proceed into the intersection when safe and legal to do so. Turn Only: Complete a required turn as mandated by a Left Turn Only or Right Turn Only sign. 1. If no explicit limit lime is painted, vehicles shall interpret the plane of the sign as the limit line. Vehicle must enter and exit uncontrolled intersections without stopping. Bicycles: Vehicle must remain a minimum of 3 feet from all bicyclists. Other: Avoid colliding with any static object obstructing the vehicle's path of travel. Pedestrians: When required to stop[1], vehicles must stop before the limit line preceding the crosswalk, with no part of the vehicle past the limit line[2], and allow the pedestrian to completely cross the roadway before proceeding. Other Dynamic Objects: Avoid colliding with any					vary, depending on the objects encountered on each segment. Each occurrence will be equally weighted a sum to 32 points for any given segme Competitors will also see other types of traffic control signage which will not be scored by this metric. Competitors will not be penalized for exceeding deceleration limits to avoid
DC.x.1.1 DC.x.1.2	Dynamic Challenge Dynamic Challenge Dynamic Challenge Dynamic Challenge Dynamic Challenge	(Each Segment of 10 total) (Each Segment of 10 total)	Object Perception & Interaction React Properly to Signal React Properly to Traffic Control Signage React Properly to Uncontrolled Intersection Avoid Static Objects	Green: Decelerate if necessary for acceleration metrics, but do not stop. Solid Red: Come to a complete stop within 3 meters of the limit line preceding the intersection, with no part of the vehicle past the limit line. Remain stopped until legally allowed to proceed. Flashing Red: Come to a complete stop within 3 meters of the limit line preceding the intersection, with no part of the vehicle past the limit line. Remain stopped until legally allowed to proceed. Stop Sign: Come to a complete stop no more than 3 meters before any applicable limit line. Remain stopped until legally allowed to proceed stop Sign: Come to a complete stop no more than 3 meters before any applicable limit line! IJ, and proceed into the intersection when safe and legal to do so. Turn Only: Complete a required turn as mandated by a Left Turn Only or Right Turn Only sign. 1. If no explicit limit line is painted, vehicles shall interpret the plane of the sign as the limit line. Vehicle must enter and exit uncontrolled intersections without stopping. Bicycles: Vehicle must remain a minimum of 3 feet from all bicyclists. Other: Avoid colliding with any static object obstructing the vehicle's path of travel. Pedestrians: When required to stop[1], vehicles must stop before the limit line preceding the crosswalk, with no part of the vehicle past the limit line[2], and allow the pedestrian to completely cross the roadway before proceeding.					vary, depending on the objects encountered on each segment. Each occurrence will be equally weighted a sum to 32 points for any given segme Competitors will also see other types of traffic control signage which will not be scored by this metric. Competitors will not be penalized for exceeding deceleration limits to avoid
DC.x.1.1 DC.x.1.2 DC.x.1.3	Dynamic Challenge Dynamic Challenge Dynamic Challenge Dynamic Challenge Dynamic Challenge	(Each Segment of 10 total) (Each Segment of 10 total)	Object Perception & Interaction React Properly to Signal React Properly to Traffic Control Signage React Properly to Uncontrolled Intersection Avoid Static Objects	Green: Decelerate if necessary for acceleration metrics, but do not stop. Solid Red: Come to a complete stop within 3 meters of the limit line preceding the intersection, with no part of the vehicle past the limit line. Remain stopped until legally allowed to proceed. Flashing Red: Come to a complete stop within 3 meters of the limit line preceding the intersection, with no part of the vehicle past the limit line. Remain stopped until legally allowed to proceed. Stop Sign: Come to a complete stop within 3 meters before any applicable limit line. Remain stopped until legally allowed to proceed. Stop Sign: Come to a complete stop no more than 3 meters before any applicable limit line. If and proceed into the intersection when safe and legal to do so. Turn Only: Complete a required turn as mandated by a Left Turn Only or Right Turn Only sign. 1. If no explicit limit line is painted, vehicles shall interpret the plane of the sign as the limit line. Vehicle must enter and exit uncontrolled intersections without stopping. Bicycles: Vehicle must remain a minimum of 3 feet from all bicyclists. Other: Avoid colliding with any static object obstructing the vehicle's path of travel. Pedestrians: When required to stop(1), vehicles must stop before the limit line preceding the crosswalk, with no part of the vehicle past the limit line[2], and allow the pedestrian to completely cross the roadway before proceeding. Other Dynamic Objects: Avoid colliding with any dynamic objects obstructing the vehicle's path of travel.					vary, depending on the objects encountered on each segment. Each occurrence will be equally weighted at sum to 32 points for any given segment of 32 points
DC.x.1.1 DC.x.1.2 DC.x.1.3	Dynamic Challenge Dynamic Challenge Dynamic Challenge Dynamic Challenge Dynamic Challenge	(Each Segment of 10 total) (Each Segment of 10 total)	Object Perception & Interaction React Properly to Signal React Properly to Traffic Control Signage React Properly to Uncontrolled Intersection Avoid Static Objects	Green: Decelerate if necessary for acceleration metrics, but do not stop. Solid Red: Come to a complete stop within 3 meters of the limit line preceding the intersection, with no part of the vehicle past the limit line. Remain stopped until legally allowed to proceed. Flashing Red: Come to a complete stop within 3 meters of the limit line preceding the intersection, with no part of the vehicle past the limit line. Remain stopped until legally allowed to proceed. Stop Sign: Come to a complete stop within 3 meters of the limit line proceed the intersection with no part of the vehicle past the limit line. Remain stopped until legally allowed to proceed. Stop Sign: Come to a complete stop no more than 3 meters before any applicable limit line. It and proceed into the intersection when safe and legal to do so. Turn Only: Complete a required turn as mandated by a Left Turn Only or Right Turn Only sign. 1. If no explicit limit line is painted, vehicles shall interpret the plane of the sign as the limit line. Vehicle must enter and exit uncontrolled intersections without stopping. Bicycles: Vehicle must remain a minimum of 3 feet from all bicyclists. Other: Avoid colliding with any static object obstructing the vehicle's path of travel. Pedestrians: When required to stop[1], vehicles must stop before the limit line preceding the crosswalk, with no part of the vehicle past the limit line[2], and allow the pedestrian to completely cross the roadway before proceeding. Other Dynamic Objects: Avoid colliding with any dynamic objects obstructing the vehicle's path of travel.					encountered on each segment. Each occurrence will be equally weighted ar sum to 32 points for any given segment of the segment
DC.x.1.1 DC.x.1.2 DC.x.1.3	Dynamic Challenge Dynamic Challenge Dynamic Challenge Dynamic Challenge Dynamic Challenge	(Each Segment of 10 total) (Each Segment of 10 total)	Object Perception & Interaction React Properly to Signal React Properly to Traffic Control Signage React Properly to Uncontrolled Intersection Avoid Static Objects	Green: Decelerate if necessary for acceleration metrics, but do not stop. Solid Red: Come to a complete stop within 3 meters of the limit line preceding the intersection, with no part of the vehicle past the limit line. Remain stopped until legally allowed to proceed. Flashing Red: Come to a complete stop within 3 meters of the limit line preceding the intersection, with no part of the vehicle past the limit line. Remain stopped until legally allowed to proceed. Stop Sign: Come to a complete stop or more than 3 meters before any applicable limit line. Remain stopped until legally allowed to proceed. Stop Sign: Come to a complete stop no more than 3 meters before any applicable limit line. Independent on the intersection when safe and legal to do so. Turn Only: Complete a required turn as mandated by a Left Turn Only or Right Turn Only sign. 1. If no explicit limit line is painted, vehicles shall interpret the plane of the sign as the limit line. Vehicle must enter and exit uncontrolled intersections without stopping. Bicycles: Vehicle must remain a minimum of 3 feet from all bicyclists. Other: Avoid colliding with any static object obstructing the vehicle's path of travel. Pedestrians: When required to stop(f), vehicles must stop before the limit line preceding the crosswalk, with no part of the vehicle past the limit line/2), and allow the pedestrian to completely cross the roadway before proceeding. Other Dynamic Objects: Avoid colliding with any dynamic objects obstructing the vehicle's path of travel.					vary, depending on the objects encountered on each segment. Each occurrence will be equally weighted at sum to 32 points for any given segment of 32 points

Case	Challenge	Course	Metric	Target Score Criteria	Max Points	Min_ Points	Max Occurrences		Metric Notes
DC.x.1.6	Dynamic Challenge	(Each Segment of 10 total)	Intersection Lane Selection	Vehicle crosses into the intersection while inside the proper lane to execute the desired turn, and exits the intersection into the appropriate lane.					Left turns must exit in the leftmost lane; Right turns must exit into the rightmost lane.
DC.x.2			Destination Objectives		10				Teams must autonomously arrive at the destination address [DC.x.3.2] in order to be eligible for Destination Objective points.
DC.x.2.1	Dynamic Challenge	(Each Segment of 10 total)	Arrive at Location	Arrive to within 15 meters of the destination address at the end of a segment.	2	0	1	2	points.
DC.x.2.2	Dynamic Challenge	(Each Segment of 10 total)	Stop at Address	Vehicle must come to a complete stop within 15 meters of the destination address.	2	0	1	2	
DC.x.2.3	Dynamic Challenge	(Each Segment of 10 total)	Shift Into Park	Vehicle must autonomously shift to park and remain in park for a minimum of 5 seconds.	2	0	1	20	
DC.x.2.4	Dynamic Challenge	(Each Segment of 10 total)	Shift Into Drive	Vehicle must autonomously shift to drive.	2	0	1	2	The last segment of each route will have this metric automatically awarded upon shifting into park.
DC.x.2.5	Dynamic Challenge	(Each Segment of 10 total)	Leave the Vicinity of the Address	Proceed to the next destination autonomously. Points will be awarded when vehicle has left the vicinity of the address and passed the next segment restart marker.	2	0	on O	2	The last segment of each route will have this metric automatically awarded upon shifting into park.
DC.x.3		1	Autonomous Mode Route Completi	on	10	203			Teams must autonomously arrive at the destination address [DC.x.3.2] in order to be eligible for Route Completion points.
DC.x.3.1	Dynamic Challenge	(Each Segment of 10 total)	Route Optimization	The vehicle must take the most direct path between the start and destination addresses.	C²	0	1	2	
DC.x.3.2	Dynamic Challenge	(Each Segment of 10 total)	Autonomous Mode	Vehicle must remain in autonomous mode from the start address or segment start marker to within 50 meters of the destination address. Any exit of autonomous mode will be also considered a Manual Takeover DNF for the segment.	8	0	1	8	
DC.x.4			Drive Quality Metrics	- Ei	8				Teams must autonomously arrive at the destination address [DC.x.3.2] in order to
DC.X.4	Dunamia	(Each		+1 pts for staying below 3.5 m/s2;	1	0	1	1	be eligible for Drive Quality Metric points.
DC.x.4.1	Dynamic Challenge	(Each Segment of 10 total)	Peak Longitudinal Acceleration	TT plo for Staying bolow 0.5 m/s2,	,	ŭ	·	·	
DC.x.4.2	Dynamic Challenge	(Each Segment of 10 total)	Peak Longitudinal Deceleration	+1 pts for staying above -3.5 m/s2	1	0	1	1	'Competitors will not be penalized for exceeding deceleration limits to avoid dynamic objects.
DC.x.4.3	Dynamic Challenge	(Each Segment of 10 total)	Peak Longitudinal Acceleration Gradient		1	0	1	1	Competitors will not be penalized for exceeding acceleration gradient limits to avoid dynamic objects.
DC.x.4.4	Dynamic Challenge	(Each Segment of 10 total)	Peak Longitudinal Deceleration Gradient	+1 pts for staying above -10 m/s3	1	0	1	1	Competitors will not be penalized for exceeding deceleration gradient limits to avoid dynamic objects.
DC.x.4.5	Dynamic Challenge	(Each Segment of 10 total)	Peak Lateral Acceleration	+1 pts for staying within ±3.5 m/s2	1	0	1	1	Competitors will not be penalized for exceeding lateral acceleration limits to avoid dynamic objects.
DC.x.4.6	Dynamic Challenge	(Each Segment of 10 total)	Avoiding Unnecessary Stops	Vehicle must not stop at any time between the start address and destination address unless required by a traffic control device or dynamic object.	3	0	1	3	
DC.x.DNF2	Dynamic Challenge	(Each Segment of 10	Off Course	Occurs when the vehicle has all four (4) tires outside the course boundary, as indicated by a solid white line, yellow line, or pavement edge.	0	-60	1		DNF - All points in this segment obtained after the DNF occurs will be forfeited.
DC.x.DNF3	Dynamic Challenge	total) (Each Segment of 10	Manual Takeover	Occurs as a result of any manual takeover or Estop activation while on-course.	0	-60	1		DNF - All points in this segment obtained after the DNF occurs will be forfeited.
DC.x.DNF4	Dynamic Challenge	total) (Each Segment of 10 total)	Collision	Occurs when the vehicle collides with any object or drives on top of a curb.	0	-60	1		DNF - All points in this segment obtained after the DNF occurs will be forfeited. Collisions may prevent a vehicle from attempting additional segments for the day.
DC.x.DNF5	Dynamic Challenge	(Each Segment of 10 total)	Exceeding Autonomous Vehicle Speed Limit	Occurs when the vehicle under autonomous control exceeds the autonomous vehicle speed limit (25mph)	0	-60	1		DNF - All points in this segment obtained after the DNF occurs will be forfeited. Competitors may go up to 35mph when the
	Dynamic								vehicle is being driven manually.
	Dynamic Challenge		L	Total (Per Segment):	60				
	Dynamic Challenge	*	Tie Breaking	Highest number of segments completed Fastest cumulative route time					