WELCOME!

US 85 (I-76 TO 124th Avenue) Project

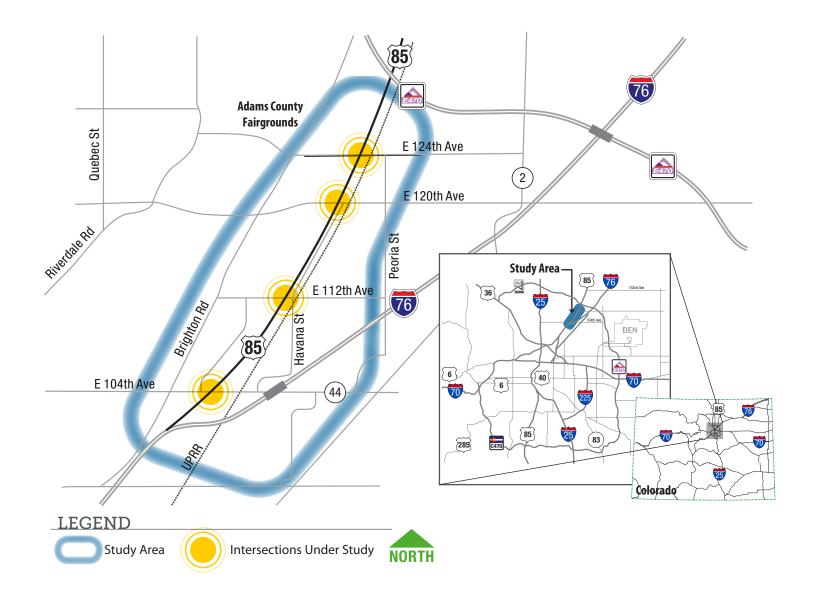


COLORADO

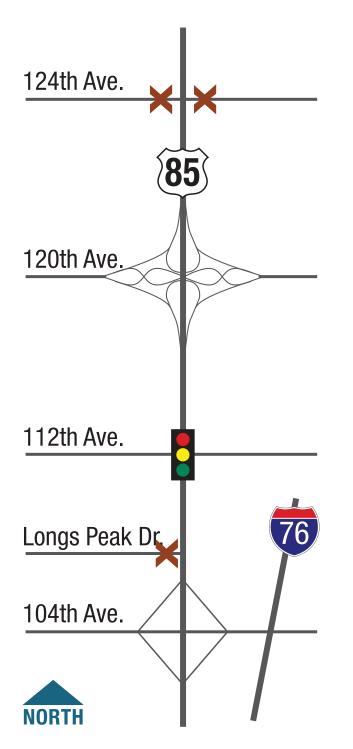
Transportation



Study Area & Vicinity



CO CDO



US 85/120th Avenue: Diverging Diamond Interchange

US 85/124th Avenue:

Closure

US 85/112th Avenue At-Grade Improvements

US 85/104th Avenue: Standard Diamond Interchange



How to Comment & Stay Connected

Leave your comments at today's meeting



Visit the project website: <u>www.codot.gov/library/studies/us-85-from-i-76-to-</u> <u>124th-avenue-highway-design-improvements</u>

Contact the US 85 (I-76 to 124th Ave) Stakeholder Engagement team: jody@jseassociates.com





Schedule

2016				2017				2018				2019		
SPRING	SUMMER	FALL	WINTER	SPRING	SUMMER	FALL	WINTER	SPRING	SUMMER	FALL	WINTER	SPRING	SUMMER	FALL
Linkages Study					US 85 (I-76-124t Project Sc									
					Alternatives Analysis									
Environm									nental Documentation					
									Engineering Design*					



What is the Purpose of the **Proposed Action?**

The purpose of the proposed transportation improvements in the US 85 corridor from I-76 to 124th Avenue are to:



Improve safety



Reduce existing and future traffic congestion

What are the objectives of the proposed action?

Improve connectivity for and between transit (bus), bicyclists, and pedestrians

Improve regional operations for cars, freight, and transit (bus), along US 85 between the Denver metropolitan area and communities in Adams and Weld Counties and provide reasonable access for existing and future land use



Why are the Transportation Improvements Needed?



There is a higher than expected number of rear-end crashes at the US 85/104th Avenue and US 85/120th Avenue intersections. The proximity of the railroad to the intersections is not adequate to safely accommodate queues that form between the railroad tracks and US 85 when a train is present.

Vehicle and Transit (Bus) Operations Traffic operations along the corridor and at the intersections are congested today and are expected to worsen by 2040 due to local and regional population and employment growth.

WELCOME STATION 16-289 12/12/2018

Existing & Forecasted 2040 Operational Deficiencies

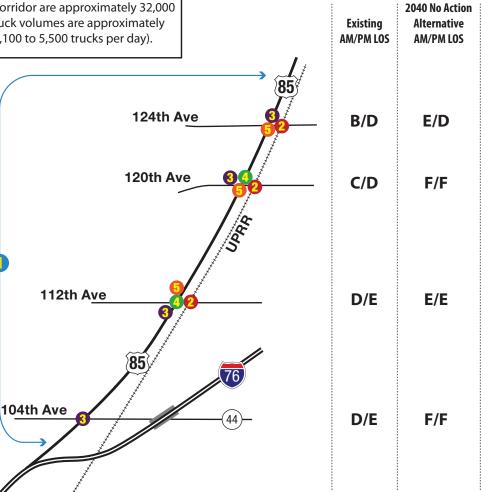
Existing daily traffic volumes along the corridor are approximately 32,000 to 42,000 vehicles per day (vpd). Daily truck volumes are approximately 13 percent of the daily traffic volumes (4,100 to 5,500 trucks per day).

The distance between the railroad and US 85 ranges from approximately 200 to 220 feet between US 85 and the 112th Avenue, 120th Avenue, and 124th Avenue at-grade railroad crossings. The distance between US 85 and the 104th Avenue railroad crossing is approximately 800 feet.

Existing and projected average queues exceed the available storage between the railroad crossing and US 85 at these locations when a train is present. The eastbound vehicle queues can extend onto the northbound US 85 mainline causing northbound vehicles to come to a complete stop. There is a moderate risk of increased crash and severity rates on the northbound US 85 mainline.

Existing traffic operations for the US 85/104th Avenue, US 85/112th Avenue, US 85/120th Avenue, and US 85/124th Avenue intersections in the morning (AM) and evening (PM) are level of service (LOS) D/E, LOS D/E, LOS C/D, and LOS B/D respectively.

Projected 2040 traffic volumes indicate that the US 85/104th Avenue, US 85/112th Avenue, US 85/120th Avenue, and US 85/124th Avenue intersections in the morning (AM) and evening (PM) are F/F, E/E, F/F, and E/D respectively. The US 85/104th Avenue, US 85/112th Avenue, US 85/120th Avenue, and the US 85/124th Avenue intersections have an above average number of rear end crashes compared to other similar facilities. Fatalities have occurred at US 85/112th Avenue, US 85/120th Avenue, US 85/124th Avenue, and in the median along the corridor. Sidewalks for pedestrians and transit users do not exist at US 85/112th Avenue, US 85/120th Avenue, and the US 85/124th Avenue intersections. Northbound and southbound bus stops are located along US 85 at 104th Avenue, 112th Avenue, and 120th Avenue. Eastbound and westbound bus stops are located along 104th Avenue and 120th Avenue.





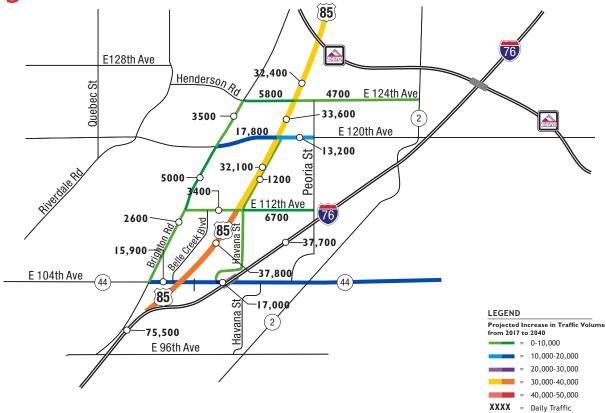
Traffic Data

Volumes

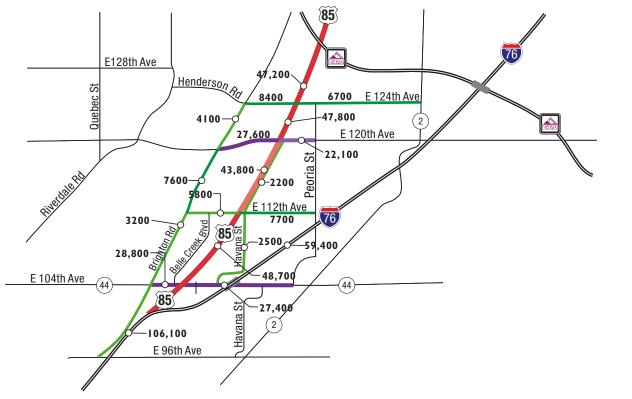
Rounded to nearest 100 vehicles with at least 100 vehicles for every movement

NOTE:

Existing Conditions



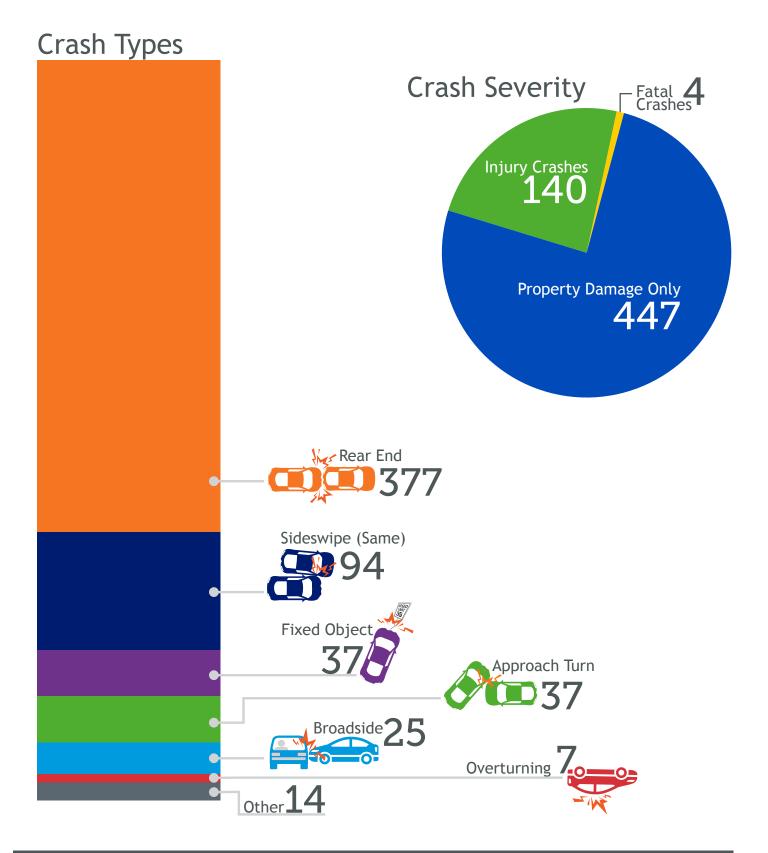
2040 No-Action

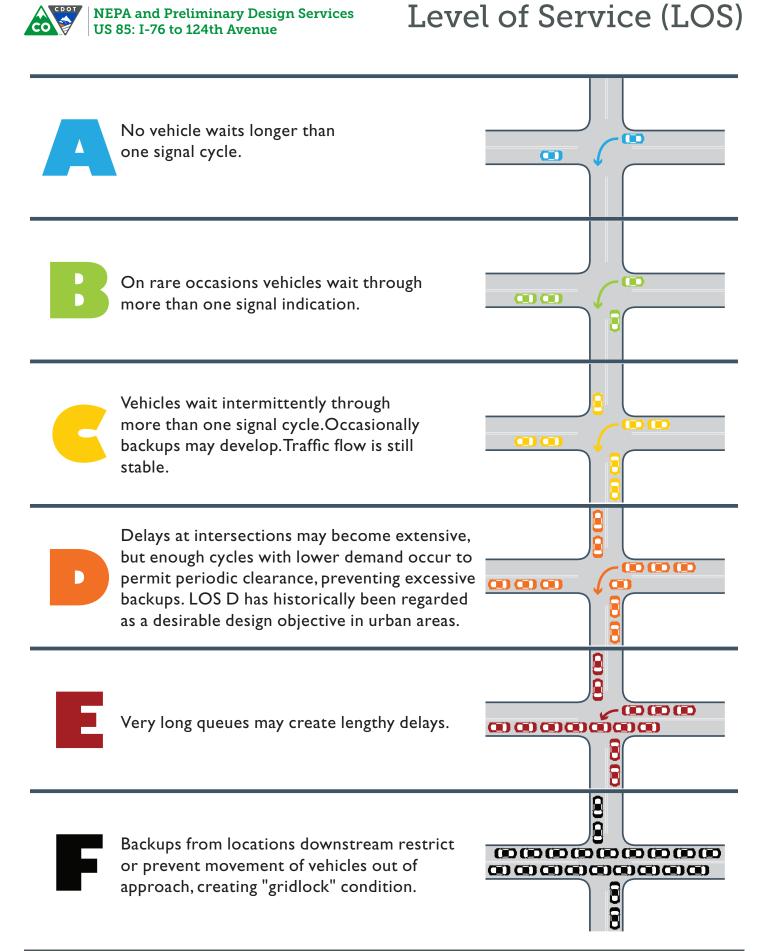




Corridor Crash History

January 1st, 2011-June 30th 2016 (Intersection and Non-Intersection Related Crashes)





NEPA and Preliminary Design Services

Level of Service

Existing Conditions

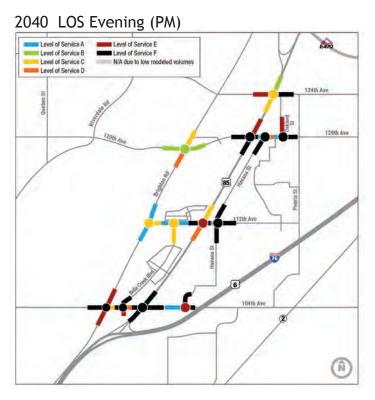


Existing (2017) LOS Evening (PM) Level of Service A Level of Service B Level of Service D



2040 No-Action 2040 No Action LOS Morning (AM)

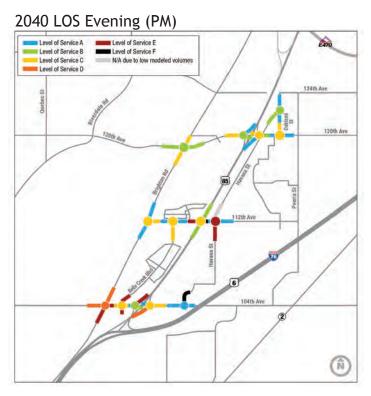




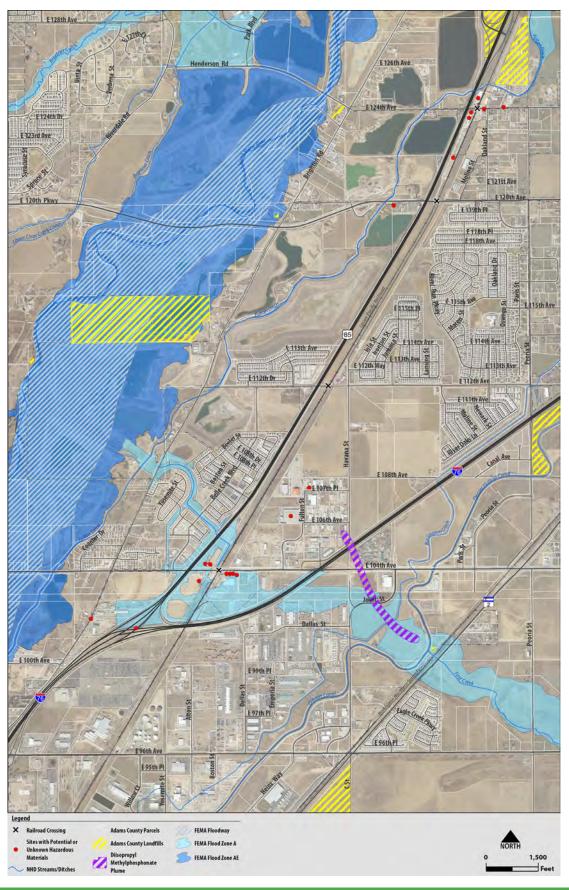
Proposed Action

2040 LOS Morning (AM)

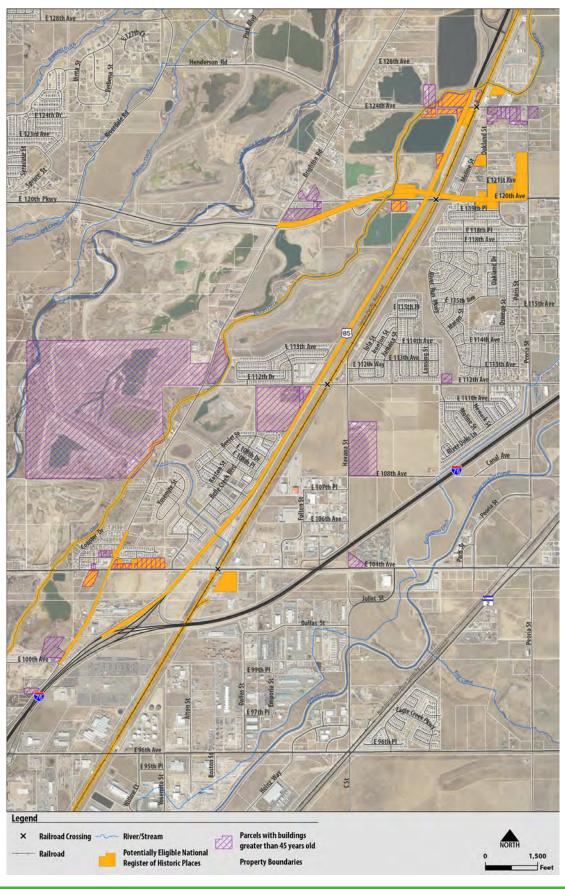




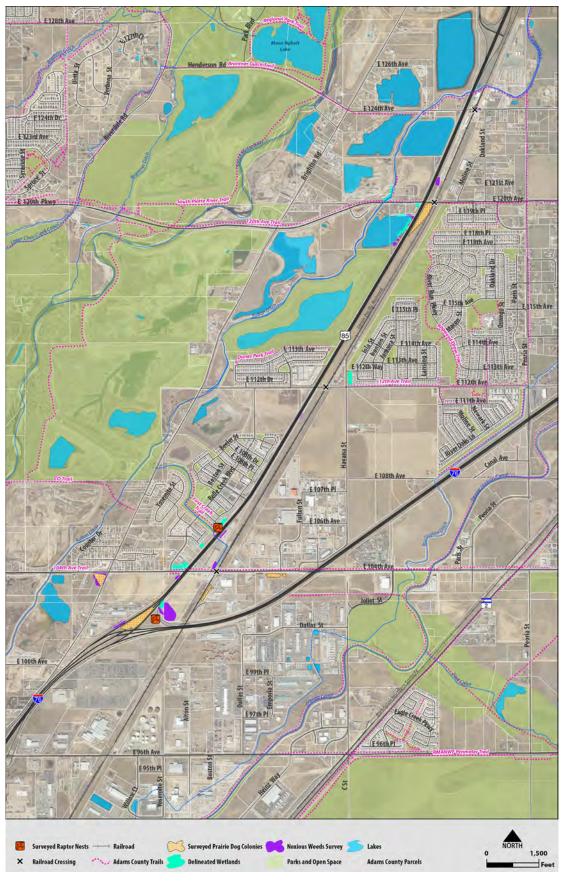
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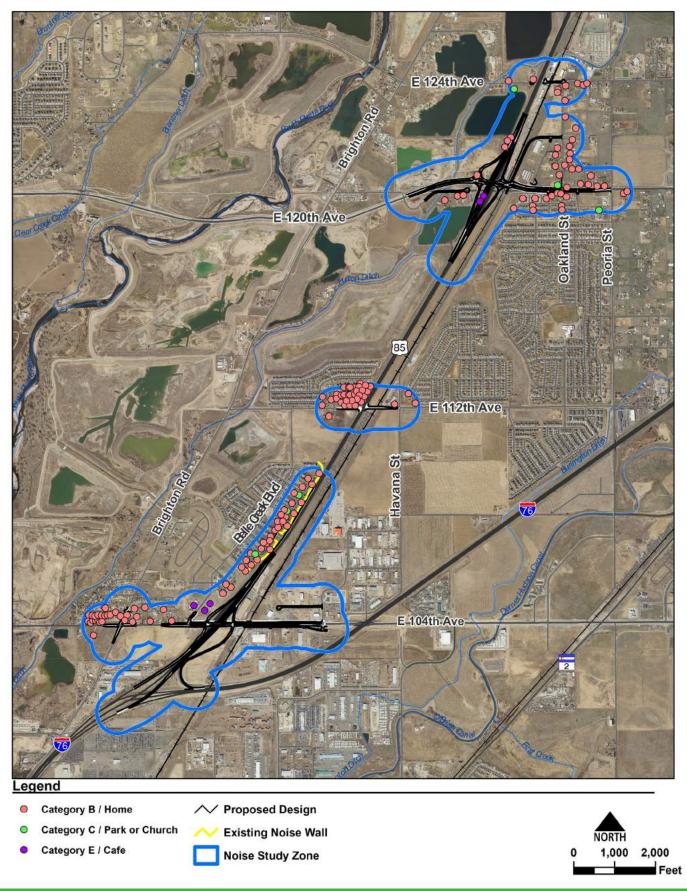
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СОСТ

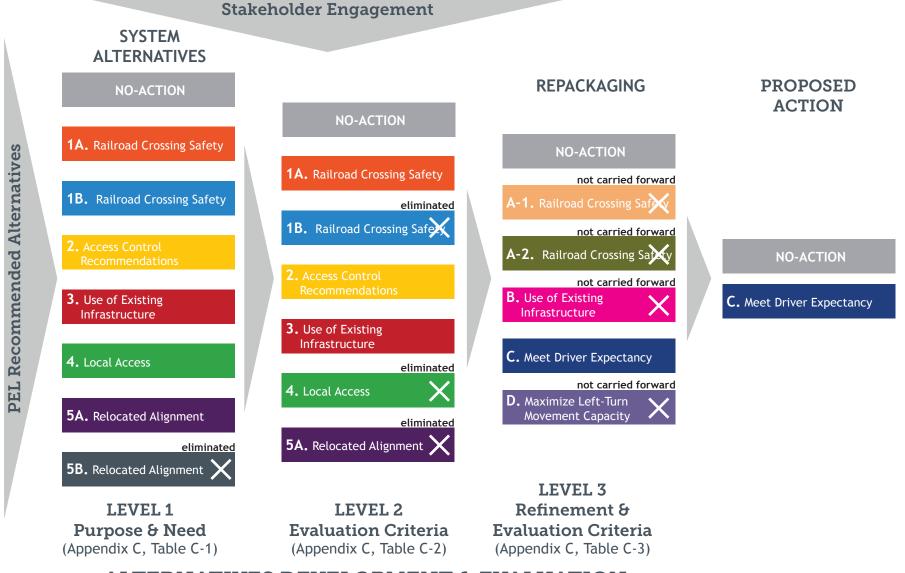


СООТ





Alternatives Development and Evaluation Process

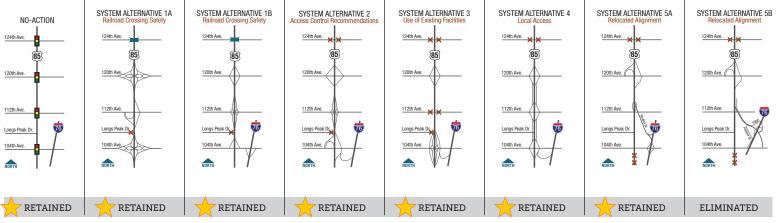


ALTERNATIVES DEVELOPMENT & EVALUATION

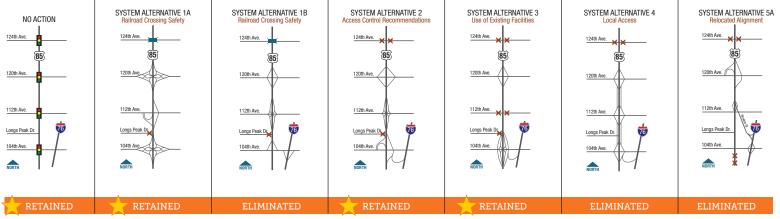
ALTERNATIVES DEVELOPMENT

Alternatives Evaluation

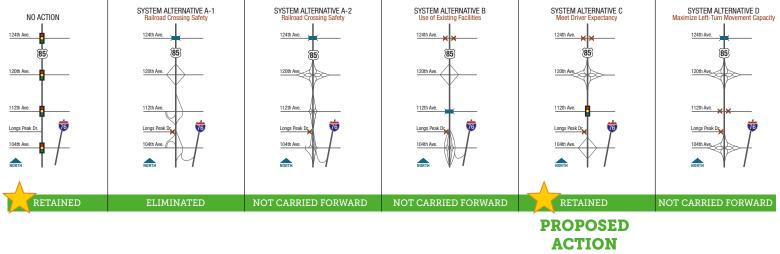
LEVEL 1 EVALUATION



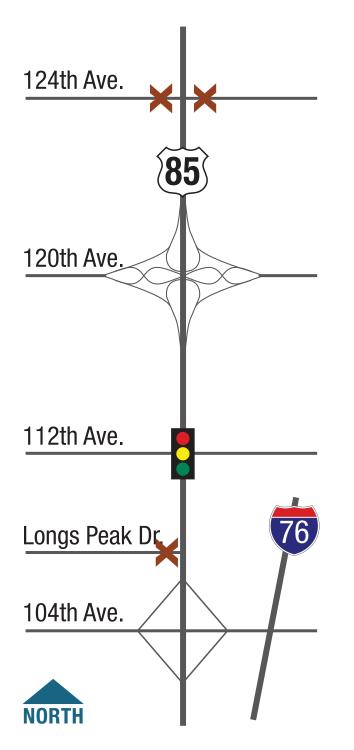
LEVEL 2 EVALUATION



LEVEL 3 EVALUATION - REPACKAGED



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US 85/120th Avenue: Diverging Diamond Interchange

US 85/124th Avenue:

Closure

US 85/112th Avenue At-Grade Improvements

US 85/104th Avenue: Standard Diamond Interchange



Plan View

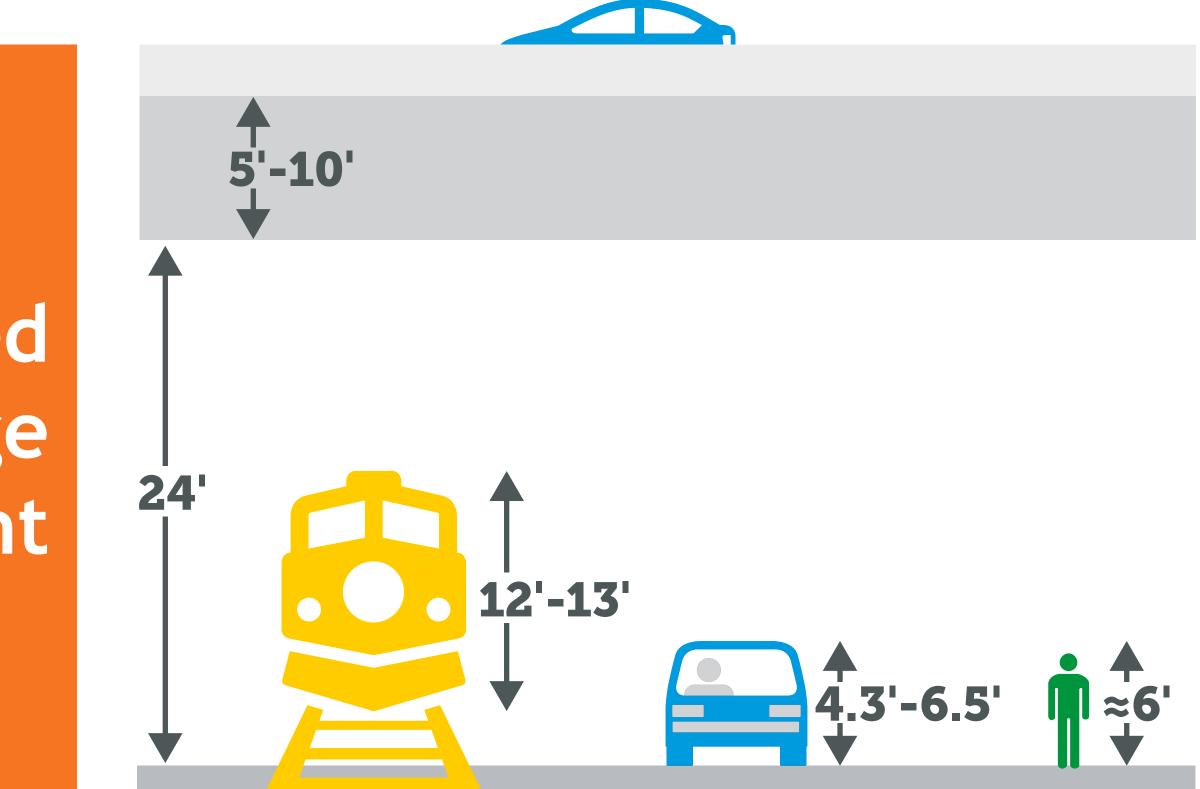


Perspective



US 85/104th Avenue Diverging Diamond Interchange

Proposed Bridge Height





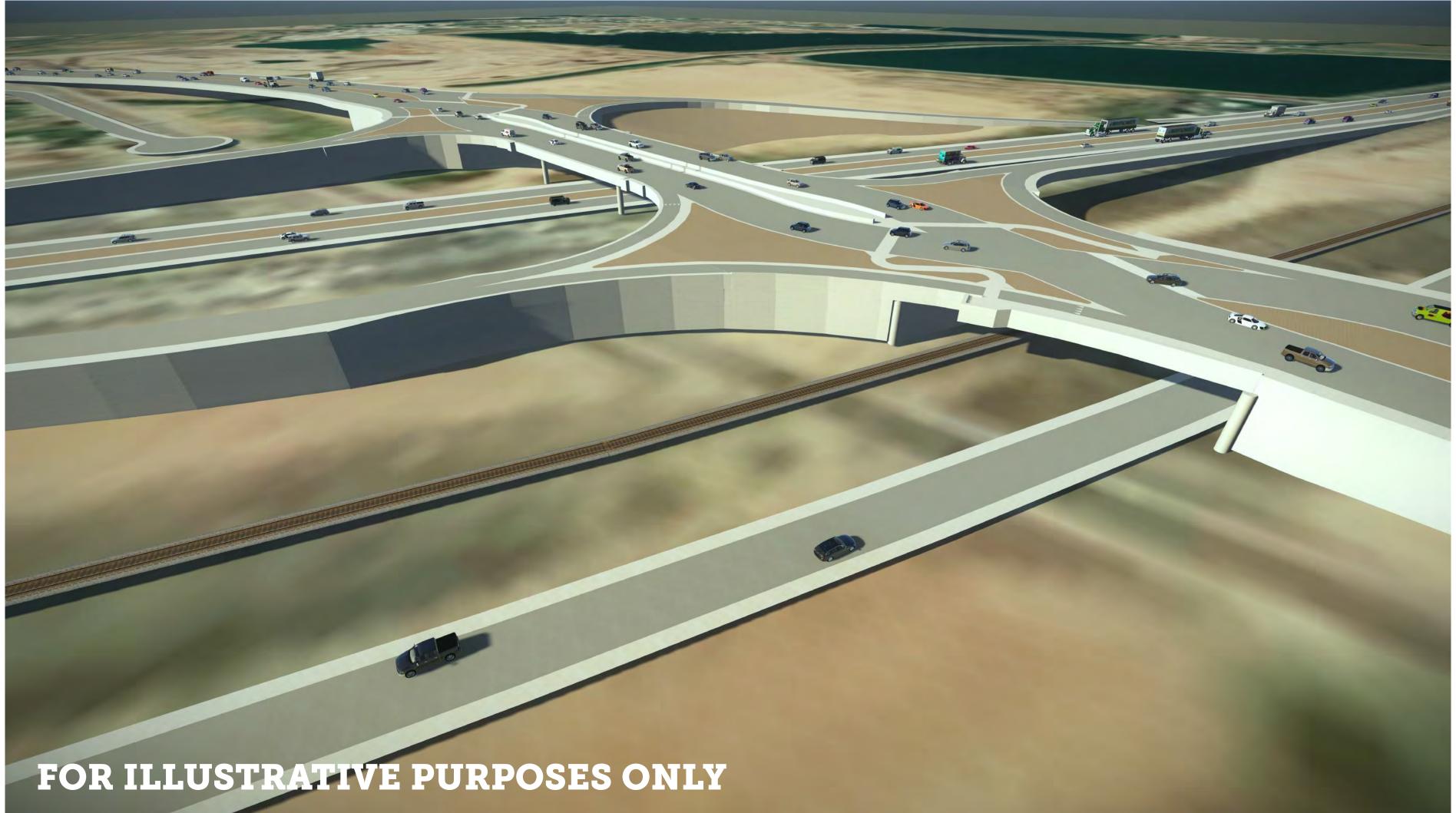




Plan View

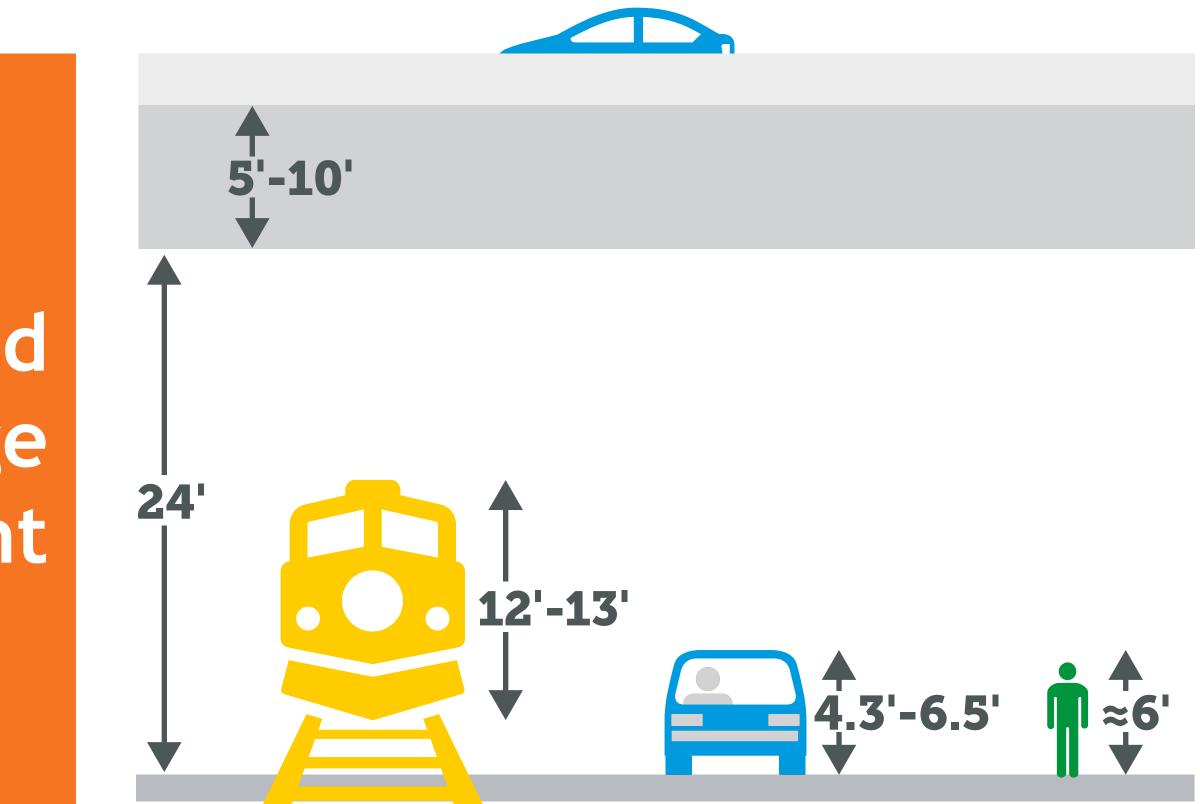


Perspective



US 85/120th Avenue Diverging Diamond Interchange

Proposed Bridge Height





US 85/120th Avenue Diverging Diamond Interchange



PROPOSED ACTION STATION 16-289 12/12/2018