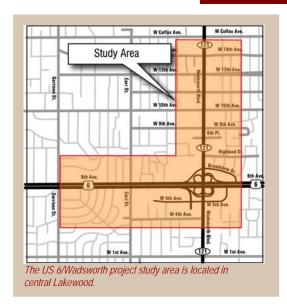
Executive Summary

- The US 6/Wadsworth Environmental Assessment (EA) analyzes the impacts of the
- ² Colorado Department of Transportation's (CDOT) proposal for roadway improvements at
- 3 the US 6 (also known as 6th Avenue) and Wadsworth Boulevard (Wadsworth)
- 4 interchange and along Wadsworth between 4th and 14th Avenues. Chapter 1 describes
- 5 the purpose and need for the action. The alternatives for implementing the action
- 6 considered and evaluated in the EA are described in Chapter 2. Chapter 3 presents the
- 7 social and environmental consequences of the alternatives. An evaluation of effects to
- 8 historic and park resources protected by Section 4(f) of the Department of Transportation
- 9 Act is presented in Chapter 4. Comments and coordination with the public and other
- 10 agencies is described in Chapter 5. Chapter 6 is a list of references. Other supporting
- 11 materials are included in appendices.

WHERE IS THE PROPOSED PROJECT LOCATED?



- The proposed US 6/Wadsworth project centers around the US 6 and Wadsworth interchange in the heart of the City of Lakewood. The study area includes both US 6 and Wadsworth. Both roadways serve a broad cross section of local and regional travelers. The east-west limits along US 6 are from the eastern interchange ramps with Wadsworth west to Garrison Street. On Wadsworth, the project limits are 4th Avenue to 14th Avenue.
- 19 Wadsworth is a regionally important highway and is the longest
- 20 continuous roadway connecting communities across the western Denver
- 21 metropolitan area. Wadsworth links northern Lakewood with Lakewood's
- 22 City Commons at Alameda Avenue south of the project area, provides
- 23 regional access to large commercial developments at Wadsworth and
- 24 Colfax Avenue, and will soon provide access to the large West Corridor
- 25 light rail station at Wadsworth and 13th Avenue, currently being
- 26 constructed by the Regional Transportation District.

WHY DID CDOT PREPARE THIS EA?

- 27 The National Environmental Policy Act requires that the environmental effects of federally
- 28 funded roadway projects be considered before deciding on a course of action. The
- 29 process provides an opportunity for CDOT to develop project alternatives that meet
- 30 transportation needs while minimizing social, environmental, and community impacts. In
- 31 the case of the proposed US 6/Wadsworth project, CDOT made numerous changes to
- 32 the conceptual design plans to respond to community input and minimize impacts.
- 33 Regulatory agencies, affected municipalities, and interested members of the public are
- 34 afforded the opportunity to comment on the project before a decision is made about
- 35 whether to design and construct the proposed roadway improvements.

ES-1 JUNE 2009

WHY DO WE NEED THIS PROJECT?

- The proposed US 6/Wadsworth project is needed to meet existing and future
- 2 transportation needs for CDOT and Lakewood. The proposed project would provide
- 3 additional roadway capacity, improve operational efficiency, improve safety, and provide
- 4 additional travel options for pedestrians and bicyclists. It would also replace a structurally
- 5 deficient bridge and address neighborhood concerns about cut-through traffic. These
- 6 needs are described in more detail in Chapter 1.

HOW DID CDOT COME UP WITH A PLAN FOR THE ROADWAY IMPROVEMENTS?



Hundreds of people attended open houses and other briefings to learn about the US 6/Wadsworth study and provide input.

- CDOT, the Federal Highway Administration (FHWA), Lakewood, area
 residents, businesses, and commuters have prioritized making improvements
 to fix the transportation problems in the study area through previous planning
 efforts. The US 6 and Wadsworth project is included in the Denver Regional
 Council of Governments' fiscally constrained regional long-range transportation
 plan.
- District, and other stakeholders in 2007 to develop alternatives for possible roadway improvements. After two levels of screening and evaluation, and consideration of more than 20 detailed criteria, an alternative was identified that could meet the purpose and need for the project and would best balance transportation benefits with environmental and community impacts. This alternative is called the Build Alternative in the EA. Public input was sought and received throughout the alternatives development process.

13 CDOT began working with FHWA, Lakewood, the Regional Transportation

WHAT IS CDOT PROPOSING TO BUILD?

- CDOT proposes to replace the existing US 6/Wadsworth interchange and widen
 Wadsworth between 4th and 14th Avenues. Associated with these roadway changes,
 CDOT also proposes to improve drainage flows of McIntyre, Lakewood, and Dry Gulches,
 and realign and widen these gulches; extend noise walls along US 6 to approximately
 Garrison Street; and construct and maintain water quality ponds to filter roadway
 pollutants from stormwater runoff.
- The interchange design, referred to as a tight diamond with loop, would be a diamond interchange with a loop ramp in the northwest quadrant of the interchange. The loop ramp would allow evening rush-hour traffic traveling west on US 6 to exit to southbound Wadsworth without stopping at a signal or yielding to through traffic. All of the interchange acceleration and deceleration lanes would be lengthened, all weave sections would be eliminated, and the structurally deficient bridge would be replaced. The operation of the interchange is illustrated on the following page.
- Along Wadsworth, the Build Alternative would add a travel lane in each direction and a
 multi-use sidewalk on both sides of Wadsworth. A raised median would be added to the
 center of the roadway to direct left turns and U-turns.

ES-2 JUNE 2009

Northwest Quadrant

Interchange

- Reconstructed loop off-ramp from westbound US 6 to southbound Wadsworth.
- A grade-separated or at-grade pedestrian crossing at on-ramp and loop ramp will be determined at final design.
- New longer on-ramp from northbound and southbound Wadsworth to westbound US 6 provides adequate acceleration and merge distances for vehicles entering US 6.
- Continuous lane on US 6 between on-ramp and Carr St. off-ramp provides safer merging conditions.

Frontage Road

- Frontage road access is shifted north and changed to two-way traffic between the 6th Ave. Business Center and Wadsworth.
- Channel improvements to Lakewood Gulch to reduce floodplain.

Northeast Quadrant

Interchange

New longer off-ramp from westbound US 6 to northbound Wadsworth provides adequate deceleration and vehicle queue distances for vehicles accessing Wadsworth. Free flow movement onto Wadsworth.

Frontage Road

- Frontage road is reconfigured to provide access directly to Wadsworth. Provides two-way operation that reduces neighborhood cut-through traffic.
- 12 New noise walls next to the frontage road.



Southwest Quadrant

Interchange

- Continuous lane on US 6 between Carr St. on-ramp and Wadsworth off-ramp provides safer merging conditions.
- New longer off-ramp from eastbound US 6 to northbound and southbound Wadsworth feeds into a multi-lane intersection that accommodates expected vehicle queues. Exiting vehicles wanting to travel east at the 5th Ave. intersection utilize the signalized intersection to make a hard right and vehicles destined farther south can use the adjacent right-turn yield lane to merge onto southbound Wadsworth.

Frontage Road

Frontage road remains one-way and continues to connect to 5th Ave. at Yukon St.

Southeast Quadrant

Interchange

New longer on-ramp from northbound and southbound Wadsworth to eastbound US 6 provides adequate acceleration and merge distance for vehicles entering US 6.

Frontage Road

Frontage road remains two-way and connects to 5th Ave. on Vance St. instead of Webster St.

Project Wide

- New noise walls between the frontage roads and US 6, west of Wadsworth.
- Detached multi-use sidewalk along both sides of Wadsworth.

The reconstructed interchange would operate more efficiently, reduce congestion, and eliminate safety concerns.

ES-3 JUNE 2009

WHAT ARE THE SOCIAL AND ENVIRONMENTAL CONSEQUENCES OF THE PROPOSAL?



The proposed US 6/Wadsworth project would have mostly beneficial effects to social and natural resources in the study area.

- This EA evaluates the potential environmental consequences of implementing the proposed project (or Build Alternative). All environmental resources were reviewed for presence in the study area and assessed for potential impacts. Some resources are not evaluated in detail in this EA because they were not present in the study area, would not be impacted by the Build Alternative, or standard construction precautions would protect the resources from significant damage.

 Environmental issues or resources evaluated in detail include transportation, pedestrian and bicycle facilities, noise, right-of-way and relocations, socioeconomics, environmental justice, land use, historic properties, hazardous substances, floodplains, water resources, and wetlands. Table ES-1 summarizes impacts to these resources.
- The majority of impacts of the Build Alternative would be beneficial.

 Congestion would be reduced and general safety would improve for local and regional travelers, access to and from the numerous businesses along Wadsworth would be safer to navigate, and the safety and convenience of travel for pedestrians and bicyclists would be greatly improved. Improving drainage channels within the study area would reduce flooding hazards, enhance riparian habitat and wildlife migration, and provide an opportunity for wetlands to establish naturally. Water quality would be improved because stormwater runoff would be filtered to reduce pollutants being discharged into the South Platte River basin. Noise walls included in the Build Alternative would decrease noise levels dramatically at residences near US 6. Improved capacity on the major roadway network and reconfiguring the frontage roads surrounding the interchange would reduce neighborhood cut-through traffic, improve business and neighborhood access, and improve air quality around
- intersections. Right-of-way needs would require acquisition of property and
 displacement of businesses and residences. Four historic properties would be
 adversely affected, and three small wetlands totaling 0.02 acre would be lost.

HOW MUCH PROPERTY DO YOU NEED TO ACQUIRE, AND HOW HAVE YOU COORDINATED WITH AFFECTED PROPERTY OWNERS?

- Approximately 31.1 acres of property would need to be acquired from 96 property owners through 114 acquisition parcels, including 45 residential, 65 commercial, and 4 publicly owned parcels. Property acquisitions would range from small slivers to entire parcels. A total of 14 residences and 28 businesses would need to be relocated. All acquisitions and relocations will comply fully with the Uniform Relocation Assistance and Real Property Acquisition Policies Act of 1970.
- ³⁷ CDOT is committed to maintaining open communication with property owners and ³⁸ stakeholders affected by the proposed project. The study team has held four public

ES-4 JUNE 2009

- 1 meetings to present the progress and preliminary findings of the study, conducted
- 2 one-on-one meetings with numerous property and business owners, and attended
- 3 more than 20 meetings with neighborhood and business groups since the summer of
- 4 2007. Team members have contacted all owners of potentially affected properties
- 5 and have met with many of these owners to explain the proposed action, understand
- 6 its effect on owners' properties, and explain CDOT's right-of-way acquisition process
- 7 and the rights owners and tenants have under the Uniform Act. CDOT continues to
- 8 respond to owners and stakeholders who contact the study team with questions or
- 9 comments, with the intent of maintaining open lines of communication and providing
- 10 as much information as is known at the time.

WHAT HISTORIC PROPERTIES ARE IN THE STUDY AREA, AND HOW WOULD THEY BE AFFECTED?



- There are nine commercial and residential properties within the study area that are individually eligible for the National Register of Historic Places. In addition, three historic districts (a school complex and two residential neighborhoods) are located in or partially within the study area. None of the historic districts would be adversely affected by the Build Alternative, and adverse effects to five of the nine individual historic properties would be avoided.
- Four historic homes located along the frontage road in the northeast quadrant of the interchange would need to be acquired. Despite extensive efforts to redesign or modify the interchange design, CDOT determined that avoiding these impacts would not be prudent and feasible. To mitigate for these losses, CDOT is working with the Colorado State Historic Preservation Office and local preservation
- groups to implement one or more historic preservation projects that would add to the local historical record.

WHERE ARE THE WETLANDS IN THE STUDY AREA, AND WHY COULDN'T YOU DESIGN AROUND THEM?



Drainages in the study area have been heavily modified by past development. While the US 6/Wadsworth project would destroy several small wetlands, proposed widening of gulches would improve conditions for new wetlands and natural riparian areas to establish.

Three small, low quality, palustrine emergent wetlands comprising a total of 0.02 acre are located within the study area along the edges of McIntyre, Lakewood, and Dry Gulches. These wetlands would be destroyed by the realignment of the gulches. Mitigation would include replacement of at least 0.02 acre of wetlands.

Impacts to these wetlands could not be avoided because substantial realignment and widening of the drainage channels of the three

gulches are needed. The channels have been highly modified. They support little riparian habitat or wetlands because they are narrow, have high flows, and are subject to scour. The drainages are also considerably undersized to carry a 100-year flood. The proposed channel improvements would provide greater opportunity for wetlands to establish than under existing conditions.

ES-5 JUNE 2009

WHAT HAPPENS IF CDOT DOES NOTHING?



Traffic congestion, inefficient roadway operations, and poor pedestrian and bicycle facilities characterize the US 6/Wadsworth project area.

- 1 This EA provides an analysis of the impacts of doing nothing
- 2 (the No Build Alternative). Without a significant investment in
- 3 roadway improvements, the existing transportation problems
- 4 in the study area would worsen. Traffic would become
- 5 increasingly congested, particularly in the morning and
- 6 evening peak rush hours. Bus and pedestrian activity
- 7 associated with the new Wadsworth light rail station at 13th
- 8 Avenue will increase, but the surrounding roadway and
- 9 sidewalk network would not support this demand.
- 10 Flooding during large storm events would continue, and the
- benefits of channel and culvert improvements would not be
- 12 realized. No systems would be constructed to filter stormwater
- 13 runoff. Noise walls would not be constructed, and severe noise
- 14 would persist for residences adjacent to US 6 west of
- 15 Wadsworth.
- 16 The No Build Alternative would not require a large capital expenditure or require any
- 17 property acquisition, and it would not affect historic properties or wetlands.

WHAT HAPPENS NEXT?

- 18 FHWA and CDOT are providing this EA for agency and public comment. A public
- 19 hearing will be scheduled in Lakewood at Lakewood City Council Chambers (480 S.
- 20 Allison Parkway, Lakewood, CO 80226). Newsletters announcing the public hearing
- 21 will be sent to all individuals on the mailing list. The public hearing also will be
- 22 advertised in newspapers, websites, neighborhood newsletters, and flyers distributed
- 23 throughout the study area. Interested individuals can attend the public hearing to
- 24 provide comments or learn more about the EA study and its recommendations.
- 25 Written comments can be provided in person at the public hearing, on the project
- 26 website at http://us6wadsworth.com/, or via mail, fax, or email to:

Seyed Kalantar, P.E. Project Manager CDOT Region 6, Centra

CDOT Region 6, Central Engineering 425 B Corporate Circle

Golden, CO 80401

(720) 497-6955 (phone)

(720) 497-6951 (fax)

seyed.kalantar@dot.state.co.us

Tim Eversoll, P.E Project Manager

CH2M HILL

9193 S. Jamaica Street Englewood, CO 80112 (720) 286-5137 (phone)

(720) 286-9789 (fax)

tim.eversoll@ch2m.com

²⁷ After consideration of public comments, CDOT and FHWA will determine whether to

28 issue a Finding of No Significant Impact (FONSI), revise the EA, or prepare an

 $_{\mbox{\scriptsize 29}}$ Environmental Impact Statement to further analyze environmental impacts. If CDOT

and FHWA determine that a FONSI is appropriate, CDOT would proceed with final

31 design. Right-of-way acquisition and construction are dependent on funding and, if

32 additional funds are not secured, these activities may be delayed.

ES-6 JUNE 2009

EXHIBIT ES-1: SUMMARY OF IMPACTS	AND MITICATION	TIC YWYVDCWUDTH	ENI/IDONIMENTAL	VCCECCMENIL
EARIDITES-T. SUIVIIVIART OF IIVIPACTS	AND WILLIGATION	. U3 0/WAD3WUK I N	EINVIRUNINENTAL	ASSESSIVIEIVI

	Impacts of the No Build Alternative Impacts of the Build Alternative				Mitigation Measures for the Build Alternative	
Tra	Transportation					
♦	Safety, capacity, and operational issues of the existing transportation network would not be addressed	♦	Capacity, safety, and operational efficiency would be enhanced for all modes of travel	♦	Roadway improvements will be coordinated with transit and other development needs	
				♦	Lane closures during construction will comply with CDOT's Lane Closure Strategy	
Pe	destrian and Bicycle Facilities					
♦	uncontrolled access, and traffic congestion create	♦	New sidewalks and improved roadway crossings would enhance mobility and safety for pedestrians and bicyclists	♦	Final design will consider other measures to enhance safety of interchange ramp crossings	
	unsafe conditions for pedestrians and bicyclists	♦	Several free-flow interchange ramp crossings would remain; pedestrians and bicycles would have difficulty crossing at these locations, particularly during rush hours	♦	Signage and access to pedestrian and bicycle routes will be provided during construction	
		♦	Pedestrian and bicycle routes could be disrupted during construction			
No	ise					
♦	High noise levels would persist for residences near US 6 west of Wadsworth where no noise	♦	Without noise mitigation, projected noise for residences along US 6 would increase 2 to 7 decibels	♦	Noise walls will be constructed to reduce noise noticeably at approximately 380 residences	
	walls are present	♦	Construction equipment and activities would intermittently generate loud noise	♦	Measures to reduce construction noise disturbance will be included in specifications	
Right-of-Way and Relocations						
♦	No right-of-way (ROW) acquisition would be required, and no residential or business displacements would occur	♦	Approximately 31.1 acres of property would be required from 96 ownerships; acquisitions would range from small slivers of property to entire parcels	♦	All acquisitions and relocations will comply fully with federal and state requirements, including the Uniform Relocation Assistance and Real Property	
		♦	14 residences and 28 businesses would be displaced		Acquisition Policies Act of 1970, as amended	
So	cioeconomics					
♦	Residences and businesses along Wadsworth would continue to be affected by cut-through	♦	Community cohesion would be enhanced by better north- south and east-west pedestrian connections, improved	♦	CDOT will provide advance notice of construction activities that are likely to result in traffic disruption	
	traffic, limited pedestrian and bicycle connections, traffic noise, and indirect neighborhood access		pedestrian and vehicular access to neighborhoods and businesses, improved neighborhood traffic conditions, and reduced noise levels more compatible with residential areas	♦	CDOT will coordinate with emergency service providers to minimize disruption of service	
		♦	Construction could disrupt access and travel through the project area for residents, businesses, and emergency service providers			
En	vironmental Justice					
♦	No disproportionately high and adverse impacts would occur in areas of minority or low-income populations	♦	No disproportionately high and adverse impacts would occur in areas of minority or low-income populations	♦	No mitigation measures are necessary	

ES-7 JUNE 2009 EXHIBIT ES-1: SUMMARY OF IMPACTS AND MITIGATION, US 6/WADSWORTH ENVIRONMENTAL ASSESSMENT (CONT.)

	Impacts of the No Build Alternative		Impacts of the Build Alternative		Mitigation Measures for the Build Alternative			
La	nd Use							
�	Traffic and pedestrian safety and mobility goals presented in adopted land use and neighborhood plans would not be advanced	♦	Improvements would support land use goals for traffic management and safety, landscaping, recreational amenities, noise mitigation, multimodal connections and safety, and drainage improvements	♦	Final design and ROW negotiations by CDOT will coordinate with Lakewood to address compatibilit with land use plans and potential allowances for non-conforming properties that may result from ROW acquisition			
>	Future growth and implementation of planned land uses could be hampered by traffic congestion and limited sidewalk facilities	♦	ROW acquisition would affect land use for some individual parcels but roadway changes would not influence regional land use patterns or induce growth					
His	Historic Properties							
♦	No historic properties would be affected	♦	Reconstruction of the interchange would require acquisition (and demolition) of four historic properties	♦	Mitigation measures identified in a Memorandum of Agreement among CDOT, FHWA, the Colorado SHPO, and other interested parties will be implemented			
Hazardous Materials								
◊	No effect on known sites of concern for hazardous materials	♦	Construction would affect seventeen sites of concern for environmental (petroleum-related) contamination	♦	Further testing and survey of potentially contaminated properties will be conducted			
		♦	Lead-based paint, asbestos, or other hazardous materials could be encountered during demolition activities	♦	Project specifications for hazardous materials will be prepared and implemented during construction			
Floodplains								
♦	Flood waters would continue to overtop Wadsworth during large storms	♦	CDOT roadways would be removed from the 100-year floodplain, and overtopping would not occur	♦	During final design, CDOT will refine the drainage design and coordinate with the appropriate local ar			
		♦	Wider and more natural channels would improve the natural values of floodplains		federal agencies to conduct hydraulic analysis and obtain necessary floodplain permits			
Water Resources/Quality								
♦	Water from roadways that may contain petroleum, sediment, or other pollutants would continue to flow into streams/gulches untreated	♦	An increase of approximately 3 acres of impervious (paved) surfaces would, without water quality treatment, increase pollutant runoff and erosion into receiving waterways	♦	Permanent water quality treatment features will be constructed and maintained to treat roadway runof and improve water quality			
		♦	Construction activities would expose soils and could cause erosion or sedimentation of gulches	♦	Required plans and permits will be prepared and followed during construction to minimize impacts to surface waters from erosion and sedimentation			
Wetlands and Waters of the United States								
♦	No wetlands or waters of the United States would be affected	♦	Channel widening and realignment would disturb 0.02 acre of wetland areas in gulches	♦	Wetlands will be replaced at a 1:1 ratio, and a Section 404 permit will be obtained			
		♦	Wider channels would provide an opportunity for wetlands and riparian habitat to establish					
Cu	mulative Impacts							
⋄	The No Build Alternative would not take any action that could combine with other projects to create cumulative effects	♦	Beneficial cumulative effects would occur to a variety of environmental and community resources as redevelopment projects in the area comply with current development requirements	♦	No mitigation required			

ES-8 JUNE 2009