DENVERIGHT | BLUEPRINTDENVER **COMPLETE NEIGHBORHOODS &** PUBLIC REVIEW DRAFT - 8/6/18 PUBLIC REVIEW DRAFT - 8/6/18

Complete Networks

A high-quality multimodal transportation system is made up of several networks, each of which serve a particular transportation mode that moves people from place to place.









Working together as a system, complete networks create reliable and attractive transportation choices for all modes including biking, walking and transit. Denver defines the streets that make up these transportation networks as modal priority streets. Modal priority streets are designed and operated to prioritize the comfort and convenience of a specific transportation mode.

The complete network concept builds upon the complete streets philosophy: all streets should be designed safely for the most vulnerable users, especially those in our community who are the youngest and oldest and those with disabilities. This philosophy also recognizes that people walking are the heart of the transportation system as everyone is a pedestrian at some point during their trip—when we drive, for example, we still need to walk to and from our car.

Complete networks recognizes that not every street can prioritize every mode. The complete network enables some streets to prioritize one or more modes so that collectively, every mode has a complete and interconnected system. The following pages describe where modal priorities will occur within the Denver street network and how a street's design and operations should differ if it is designated as a modal priority street.

Pedestrian The pedestrian network includes all sidewalks and trails in the city. Blueprint Denver also identifies Pedestrian Enhanced areas. These are areas where there is a focus on creating vibrant, walkable places with wider, enhanced sidewalks. Bicycle Bicycle priority streets will prioritize comfort and convenience for people biking. **Transit** Transit priority streets allow transit to be rapid and reliable with special attention to accessible, safe and enhanced transit stops and stations. This Denver network will complement the regional transit system. **Auto and Goods** Movement of vehicles remains an integral component of the street network. The movement of goods including freight and deliveries is an integral part of the transportation system. A network for the movement of goods has been established regionally by DRCOG but will be refined for Denver in an update to the Strategic Transportation Plan.

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Pedestrian Enhanced

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People walking (including those using mobility devices) are the priority in the design of all streets. Certain streets can be further enhanced to create vibrant public spaces and encourage walking.

crossing environment, adequate

streets are identified as "Pedestrian Enhanced" areas. These are areas offer additional opportunities to environment to create walkable,

Intersections and Crossings

installation of crosswalks

The following sections highlight some example features of pedestrian enhanced areas, but are often concentrated here.



Amenities











Lighting





Green infrastructure

the pedestrian experience by providing shade, lowering local





Wider Sidewalks

DENVERIGHT | BLUEPRINTDENVER PUBLIC REVIEW DRAFT - 8/6/18 Pedestrian Enhanced People walking (including those using mobility devices) are the priority in the design of all streets. Certain streets can be further enhanced to create vibrant public spaces. 56th Ave 52nd Ave CHAFFEE PARK GATEWAY / GREEN VALLEY RANCH Green Valley Ranch Blvd GLOBEVILLE 44th Ave BERKELEY NORTHEAST PARK HILL 38th Ave COLE WEST HIGHLAND 29th Ave SLOAN LAKE **Modal Priority** Montview Blvd CITY PARK SOUTH PARK HILL EAST 17th Ave Colfax Ave Colfax Ave Pedestrian enhanced CAPITOL CHEESMAN CONGRESS MONTCLAIR VILLA PARK Complete sidewalk 6th Ave 6th Ave network CHERRY CLUB 1st Ave Alameda Ave Alameda Ave BELCARO ATHMAR PARK Mississippi Ave Mississippi Ave MAR LEE Jewell Ave Iliff Ave UNIVERSITY ROSEDALE COLLEGE BEAR VALLEY HAMPDEN KENNEDY Hampden Ave Hampden Ave Colorado Blvd Dahlia St St Quincy Ave Quincy Ave 154 City and County of Denver www.denvergov.org/denveright

Prioritizing Pedestrian Comfort

While people walking are a priority on every street, the maps shows areas where additional opportunities exist to enhance the pedestrian environment. These are known as pedestrian enhanced areas. These areas come from the *Denver Moves: Pedestrians & Trails* plan. These streets align with the centers and corridors identified in the future places map

Pedestrian enhanced areas will be further defined on this map and updated as the result of the completion of small area plans.

Safety

Consistent with Denver's Vision Zero Action Plan, which aims to eliminate traffic deaths, improvements are made to intersections and roadways to increase safety. These improvements sometimes have trade-offs to other modes in order to prioritize safety.

Making Trade-offs

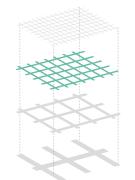
To build wider sidewalks, improve crossings for people walking, or enhance the pedestrian environment, there will occasionally be trade-offs, especially for vehicular mobility. These might include reduced vehicle speeds, restricting turning movements or additional signals to improve safety. Widening sidewalks or improving intersections sometimes will result in a reduction of available on-street parking

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Bicycle Priority

Bicycle priority streets prioritize comfort and convenience for people biking.



On bicycle priority streets, design riding bicycles over other modes.

These bicycle priority streets are bicycle facilities identified in the Denver Moves: Bicycles plan. Easeexperienced by the user of the bikeway. This includes bikeways separated from moving traffic by a physical barrier and busy be crossed on a bike. These facilities encourage biking by increasing the comfortably for those who may not are not considered bicycle priority

Intersections

Maintaining the comfort of a These treatments, which occur at include features such as bike boxes two-stage turn queue boxes, traffic

The following sections highlight some examples of how bicycles may be prioritized on bicycle priority streets:

Protected Bike

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and safe by providing a are used such as curbs,





Intersection **Treatments**

markings can increase the ease and comfort of people riding bicycles by showing the safest path









Strategically placed signage helps people on bicycles navigate to



Bike Signals/ Detection

Bike signals are special traffic lights that give across the intersection. Bicycle Priority

WEST COLFAX

VILLA PARK

WESTWOOD

HARVEY PARK SOUT

FORT LOGAN

ATHMAR PARK

COLLEGE

CHEESMAN

PARK WEST

ROSEDALE

BELCARO

WELLSHIRE

Colorado Blvd

Dahlia St

Bicycle priority streets prioritize comfort and convenience for people biking.

17th Ave

6th Ave

1st Ave

Alameda Ave

Mississippi Ave

Jewell Ave

BEAR VALLEY

Iliff Ave

Hampden Ave

Colfax Ave



MONTCLAIR

HILLTOP

SOUTHMOOR

St

Colfax Ave

6th Ave

Alameda Ave

Mississippi Ave

Yale Ave

KENNEDY

Quincy Ave

Hampden Ave

Modal Priority

Bicycle priority streets (high and medium ease-of-use facilities from Denver Moves: Bicycles)

The bicycle priority streets shown on for people riding bicycles.

ease-of-use facilities that have been identified by the Denver Moves: Bicycles

Some of the streets indicated on this bicycles, but have been identified for network will look like when those facilities are built-out.

Safety

Consistent with Denver's Vision Zero Action Plan, which aims to eliminate to intersections and roadways to modes in order to prioritize safety.

Making Trade-offs

a bike feel safe, comfortable and convenient, there will occasionally be on-street parking. These trade-offs may result in drivers more frequently having to stop at traffic signals, a slight increase of travel time for driving on certain corridors or a reduction of the availability of on-street parking.

Quincy Ave

HAMPDEN

HAMPDEN SOUTH

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Transit Priority

Implementing the transit priority streets will result in a complete high-quality transit network for Denver that complements the existing regional rail system.

Transit can move the most people rapidly through a corridor. Transit priority streets are those where transit will be prioritized over other modes when making decisions about how to design or operate the right-of-way. By prioritizing the design or operation of a particular street to benefit transit, it will help transit to reach its potential to transport more people rapidly and reliably.

Blueprint Denver's growth strategy (see Chapter 2) is founded on rapid, reliable and high-quality transit connecting Denver's centers and corridors to people to jobs, services and housing. Denver's transit plan, Denver Moves: Transit, identifies "Transit Capital Investment Corridors" where frequent service throughout the day and evening is supported by various levels of capital investments. Those capital investments ensure rapid, reliable and comfortable service that make transit a convenient choice. Transit capital investments take many forms, but they are direct expenditures by the city (and its partners) on corridors that are or aspire to be mixed-use, transit-supportive places and connect neighborhoods and community destinations.

In Blueprint Denver, transit priority streets are the medium- and highcapacity transit capital investment corridors from Denver Moves: Transit. High-capacity transit may include rail or bus rapid transit. Mediumcapacity corridors are those with either a rapid bus or full BRT.

The following sections show how the design and operation of transit priority streets will prioritize transit.



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Operational improvements, such as transit signal priority to prioritize transit at traffic signals, reduces travel time and improves reliability.







Higher capacity vehicles

Vehicles such as rail or rapid bus have the ability to increase the personthroughput of a corridor.



Dedicated transit lanes or grade separation

Transit runs in exclusive lanes or in dedicated guide-ways (such as rail). This helps transit to move the most amount of people reliably and efficiently.



Enhanced stops/ stations

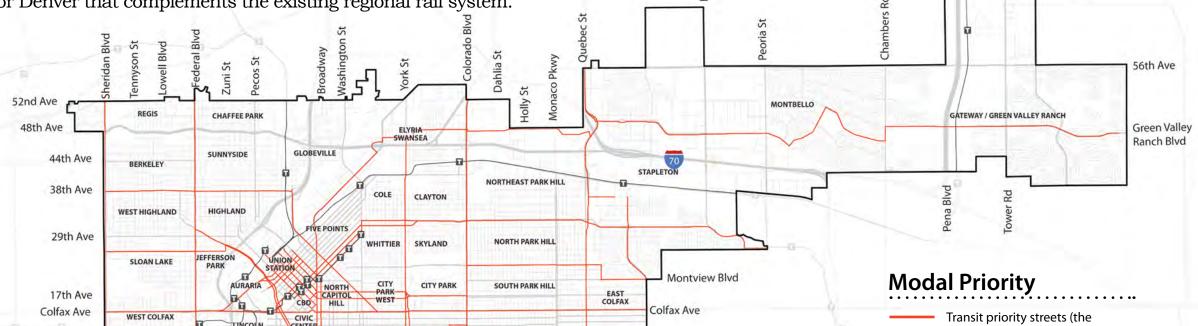
Stops with shelters that protect riders from the elements, real-time transit information and off-board ticket stations, are some of the amenities that will be expected on transit priority streets.



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Transit Priority

Implementing the transit priority streets will result in a complete transit network for Denver that complements the existing regional rail system.



medium- and high-capacity capital investment corridors from Denver Moves: Transit)

The streets shown in this map create a complete network for transit by prioritizing transit as a mode. This network, which matches the medium- and high-capacity capital investment corridors in Denver Moves: Transit, complements the existing regional rail system in Denver. It is also complemented by a larger high frequency transit network within Denver, which is shown and described in Denver Moves: Transit.

Making Trade-offs

To move more people on city streets, higher-capacity modes will be prioritized to provide reliable, rapid and high-quality service. Where design and operations trade-offs are needed, transit reliability and access will take precedence on transit priority streets. These trade-offs may include removal of a travel lane or on-street parking. This section describes some of the factors that will be considered when making a trade-off in order to prioritize transit on a particular corridor.

Person Throughput

Transit-only lanes are justified if the shift from general-purpose travel lanes to transit lanes increases the total number of people that can be carried through a corridor.

Bus Volume

Transit-only or business access transit lanes are justified by a combined flow of 30-40 in-service transit vehicles or more per hour during peak operations—typically representing a minimum of one bus per traffic signal cycle. This level of operation ensures a transit lane never looks "empty" and virtually guarantees the lane is moving more people during an hour than a generalpurpose traffic lane.

Speed

The transit-only lane provides an increase in transit operating speed (for distance of the lane or in the overall corridor), improves the overall person speed through the corridor or improves service reliability.

Increased Reliability

The transit-only or business access transit lane dramatically improves reliability and reduces travel time for consistently delayed bus services. 163

