

Eva J. Henry - District #1 Charles "Chaz" Tedesco - District #2 Emma Pinter - District #3 Steve O'Dorisio – District #4 Lynn Baca – District #5

STUDY SESSION AGENDA TUESDAY May 25, 2021

ALL TIMES LISTED ON THIS AGENDA ARE SUBJECT TO CHANGE

11:00 A.M. ATTENDEE(S): Adam Burg

ITEM: Legislative Update

11:40 A.M. ATTENDEE(S): Brian Staley / Chris Chovan

ITEM: Federal Boulevard Multimodal Study Update and

Discussion

12:40 P.M. ATTENDEE(S): Rachel Gruber, Manager of Community Affairs /

Rachel Marion, Director of Government Affairs / Cristal DeHerrera, Executive Vice President, Chief of Staff / Bill Poole, Senior Vice President of Planning

and Design / Michael Cloud, Director of

Infrastructure

ITEM: DEN Presentation

1:10 P.M. ATTENDEE(S): Raymond Gonzales

ITEM: Administrative Item Review / Commissioners

Communication

1:40 P.M. ATTENDEE(S): Heidi Miller

ITEM: Executive Session Pursuant to C.R.S. 24-6-402(4)(e)

for the Purpose of Instructing Negotiators Regarding

Economic Incentives

2:10 P.M. ATTENDEE(S): Heidi Miller

ITEM: Executive Session Pursuant to C.R.S. 24-6-402(4)(a)

for the Purpose of Instructing Negotiators Regarding

Property Sale or Acquisition

TO WATCH THE MEETING:

• Watch the virtual Zoom Study Session through our You Tube Channel

(AND SUCH OTHER MATTERS OF PUBLIC BUSINESS WHICH MAY ARISE)



STUDY SESSION ITEM SUMMARY

DATE OF STUDY SESSION: May 25, 2021

SUBJECT: Federal Boulevard Multimodal Corridor Study Update

OFFICE/DEPARTMENT: Public Works

CONTACT: Brian Staley, PE, PTOE, Director; Chris Chovan, Senior Transportation and Mobility Planner

FINACIAL IMPACT: None

SUPPORT/RESOURCES REQUEST: None

DIRECTION NEEDED: General feedback and questions related to the Study

RECOMMENDED ACTION: Information update session

DISCUSSION POINTS:

- Adams County, in partnership with the Cities of Westminster and Federal Heights, began the Federal Boulevard Multimodal Corridor Study last year.
- The study covers the Federal Boulevard corridor from 52nd Ave to 120th Ave.
- The discussion will focus on the activities presented at the most recent Stakeholder Working Group meeting including a review of similar corridors, discussion of mobility needs, and conceptual roadway cross sections.
- In addition, the staff will share the next steps of plan development and upcoming opportunities for public outreach.



Plan Development Update

Board Of Commissioners Study Session

Brian Staley, Director

Chris Chovan, Senior Transportation and Mobility Planner

May 25, 2021







Today's Discussion

- Review of Similar Corridors
- Discussion of Mobility Needs and Goals
- Cross Sections and Right-of-Way
- Moving forward



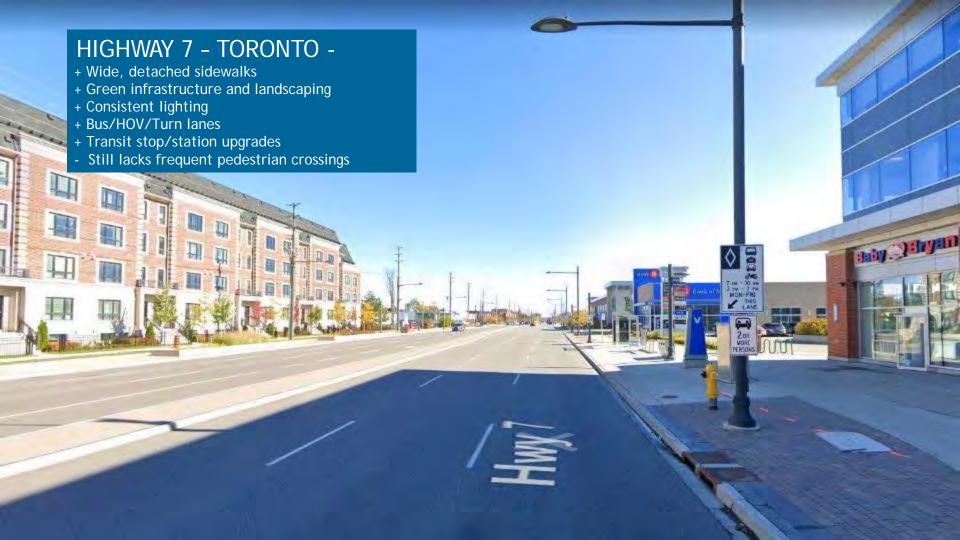


Similar Corridors

















- + Green infrastructure and landscaping in median + Upgraded lighting
- + Center-running bus rapid transit facilities + Transit stop/station upgrades
- + Incorporate public art





OTHER BUILT EXAMPLES



Business Access Transit Lane and tree lawn











Multi-use Sidewalk and Stormwater Treatments



Landscaping and Stormwater Treatments



Landscaping and Stormwater Treatments



Draft Mobility Needs and Goals

- Focus on safe, equitable, consistent, and high-quality options
- Build on existing multimodal facilities (trails, rail, etc.)
- Identify attainable alternatives to driving alone
- Generate recommendations for walking, rolling, biking, transit, driving, and freight

Draft Modal Visions & Potential Elements

Pedestrians

Existing Conditions and Stakeholder Input

- Many pedestrian crashes
- Difficult to cross
- Important issue for most stakeholders

- Greater connectivity
- Encourage addressing sidewalk concerns
- Improve safety for pedestrians

Pedestrians



Attached Sidewalk - 8' wide



Detached Multi-use Path - 10' wide



Detached Sidewalk - 8' wide



Enhanced Safety for all Users at Intersections various treatments







Recommended corridor-wide

Not Recommended

Safer Pedestrian Crossings: Signals, Rectangular Rapid Flashing Beacons (RRFBs) & High Intensity Activated Crosswalks (HAWKs)

Transit

Existing Conditions and Stakeholder Input

- Slower bus speeds due to congestion
- Record ridership
- Advocate for quality transit amenities
- Improve service

- Lack of multimodal connections to bus stops
- Safer access to bus stops and shelters
- More frequent service
- Prepare for ridership growth
- Opportunity for development, redevelopment, and land preservation

Transit



Semi-exclusive dedicated bus lanes (lanes that are reserved for buses and right turning vehicles)

							. /	
	Federal - Biller	Disar Creek - Federal Station - Gets B	Station carer Station	Pedenti - Tünd	Padecai - 104th	Print Range Community College	Hoter & Mining Sleet C	
0	TENN.	554	5310	-	-	-	~	
0	Section.	2450.	14	2014	804	-	sine.	
0	4704	6264	SEEA	-	-	-	-	
0	16256	825A	8316	-4	-	-16"	à	
0	8396	6.063	.6456	-	-	-	4	
0	9800	6462	-	8525	total	1784		
0	1155	7564	THIA	-	-	-		
0	7004	7064	7196	-	-	-	(1)	
0	7758	7164	1234		-	-	=	
0	1214	7984	288=	-	-	-	-	
-								

Service Enhancements - more frequent service (every 10 minutes), Timed Transfers to other routes and increased hours of service



Transit bypass lanes (dedicated lanes for bus approaches to intersections) at key locations, coupled with transit signal priority 'queue jumps'



Stop/Station Enhancements - ADA accessible bus shelters, relocated bus stops, sidewalk connections, multilingual information









Recommended



Bicycles

Existing Conditions and Stakeholder Input

- Minimal on-street bike infrastructure
- Not a designated bike corridor
- Encourage development of complete bike network
- Advocate for underpasses for all ages and abilities

- Concern over air quality
- More bike connections to neighborhoods
- Reduce emissions/pollution
- Addresses congestion management



Bicycles



Expanded connections to adjacent side paths



Dedicated Bike Lane along Lowell Boulevard



Dedicated Bike Lane along Federal Boulevard







Trails

Existing Conditions and Stakeholder Input

- Five regional trails
- Address missing greenway trail and infrastructure
- Encourage accessible connections
- Greater connectivity to existing trails

- Option for commuters
- Provide a connection to Camenisch Park
- Enhance connection to natural resources



Trails







Expanded connections to existing regional trails



Connections to other modal options



Streetscapes

Existing Conditions and Stakeholder Input

- Lack of unifying streetscape elements
- No sidewalk uniformity
- Prioritize wayfinding to key destinations
- Reduce urban heat island effect

- Aesthetic consistency
- Tree canopy
- Enhances traffic calming
- Greater user comfort



Streetscapes



Street Lighting and Pedestrian Amenities



Green drainage elements



Brick or hardscape median



Public Art/Gateway Elements



Improved Signage - Inventory and reassessment







Recommended

Auto Safety and Operations

Existing Conditions and Stakeholder Input

- Inadequate sight distance
- Non-compliant signals equipment
- Insufficient ADA facilities
- Improve traffic operations along the corridor
- Meet Vision Zero goals

- Manage congestion
- Vehicle speed
- Improve travel time
- Improve safety
- Reduce congestion



Auto Safety and Operations



Update signal equipment - Signal Rebuilds



Raised medians



Improved left turn treatments



ADA compliant design



Interchange improvements



Consistent corridor speed limits and signal progression based on lower target speeds







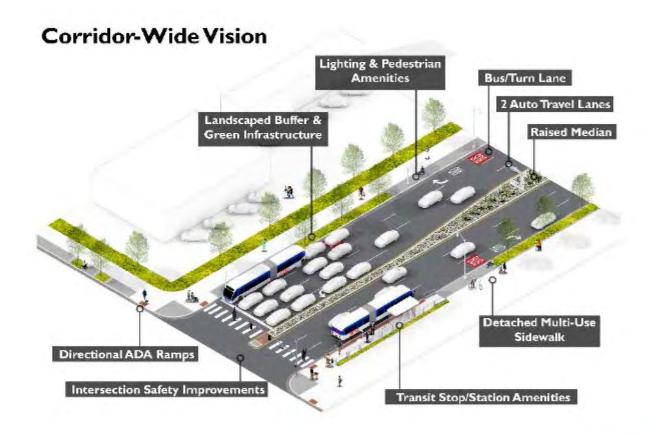


Recommended



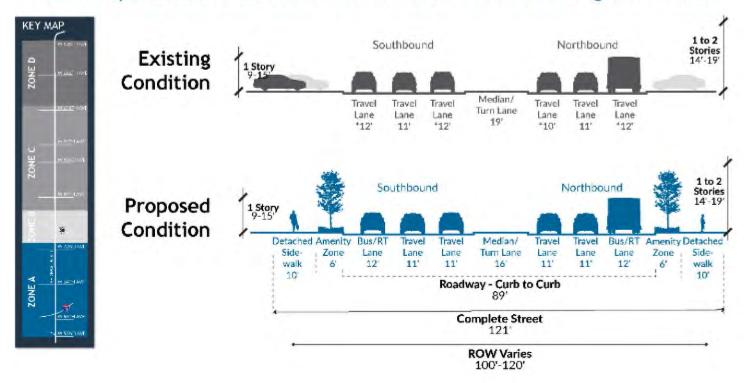
Cross Sections and Right-of-Way

Cross Section



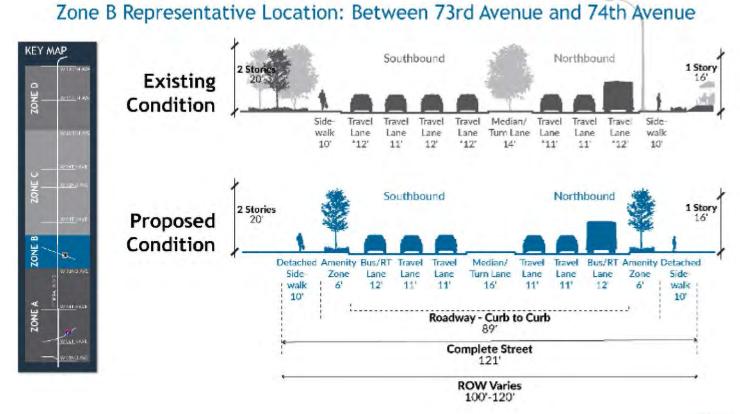
Zone A

Zone A Representative Location: Between 65th Avenue and Longfellow Place



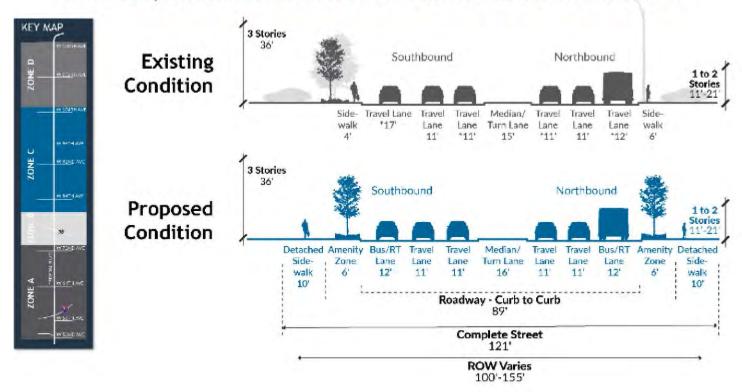


Zone B



Zone C

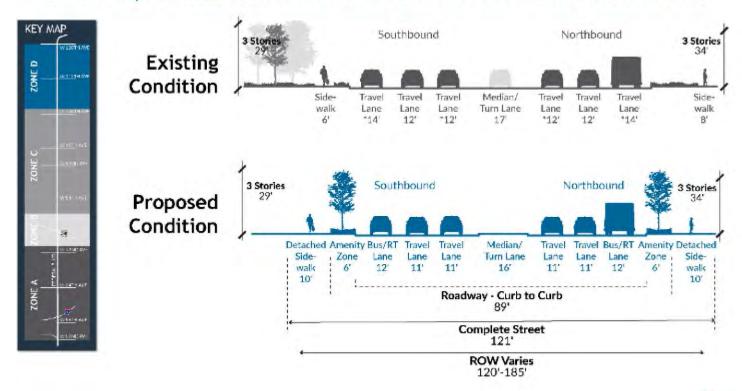
Zone C Representative Location: Between 91st Avenue and 91st Place





Zone D

Zone D Representative Location: Between 107th Avenue and 108th Avenue





Key Takeaways

Right-of-Way (ROW) and Other Impacts

- Most parcels are affected for typically minor ROW acquisitions
 - Varies along corridor
 - Most ROW needs impact parking to some extent
 - Few structures are impacted
- Modifications to interchanges and bridges will be needed



Next Steps

- Digital Survey
- Online public meeting
- Recommendations

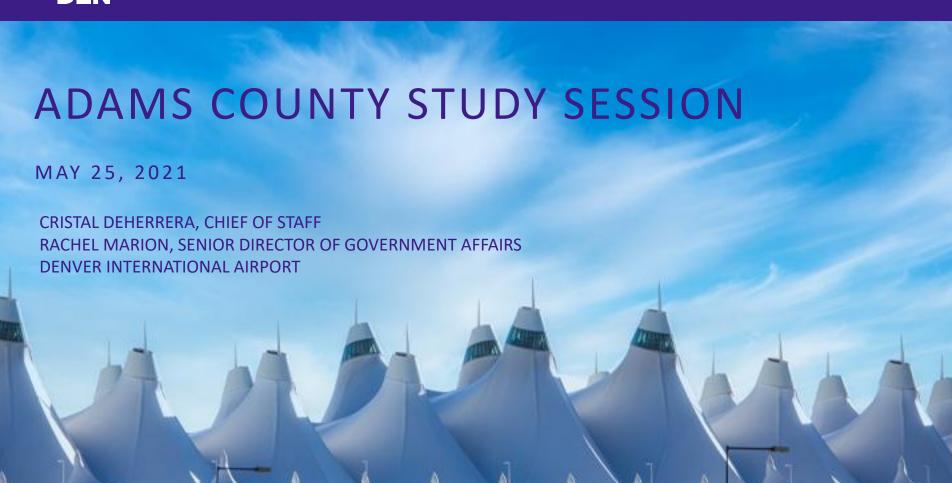
- Plan Completion expected in August/September
- Additional briefing(s) via Study
 Session expected this summer





Thank You!





DEN BY THE NUMBERS

2019 Passenger Traffic: 2020

69.9 million 33.7 million

U.S. Rank:

3rd

World Rank:

16th

Number of Routes:

(July - Dec) 211 187 (July - Dec)

Passenger Profile:

36% Connecting 41% Connecting

COVID-19 FINANCIAL IMPACT

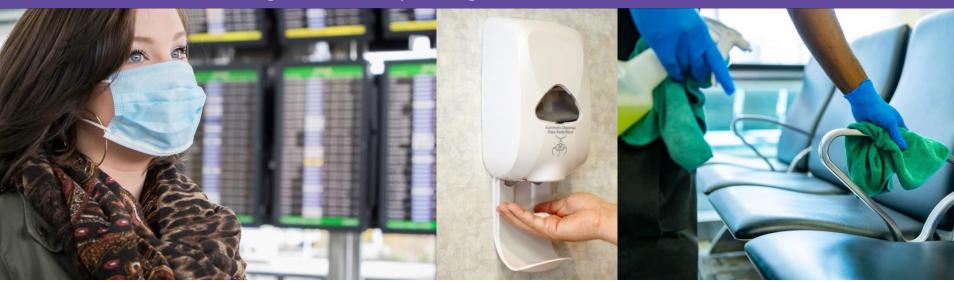


- Developed three recovery scenarios and the associated financial model
- We chose the middle as the base case with a projected \$400 million revenue loss for 2020
- As a result, we:
 - Reduced our costs by \$50 million
 - Renegotiated our largest contracts
 - Put a freeze on hiring, travel and discretionary spending
 - Required all employees to take eight furlough days
- At the same time, we gave relief to all our partners (airlines, concessions, rental cars and farmers) that included combinations of:
 - Deferral of rent payments for a limited amount of time
 - Removal of Minimum Annual Guarantees
 - Allowed flexibility in hours and permitted temporary or permanent closures without penalty
 - Airlines, concessions, rental cars and DEN all received federal relief

PASSENGER SAFETY/COVID-19 RESPONSE



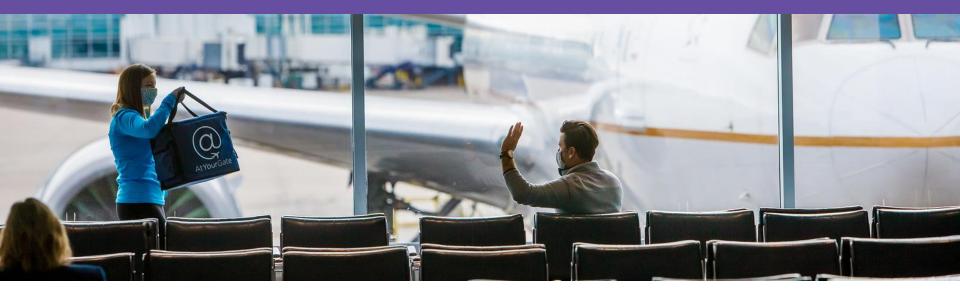
- Health and safety of passengers and employees is number one priority
- Limiting the spread of COVID-19 through frequent cleaning, Plexiglass barriers, hand sanitizer stations and disinfecting wipes
- Additional signage and messaging to help traffic flow and support social distancing
- COVID-19 testing for ticketed passengers



EATS DELIVERED



- To enhance the passenger experience and provide a more touchless experience,
 we implemented Eats Delivered in 2020
- App-based delivery service for food and travel amenities
- Download the AtYourGate app to place your order, pay and have it delivered to you in approximately 30 minutes or less



COVID-19 CONSTRUCTION IMPACT



- It was also important for us to maintain and create jobs, where possible
 - Continued forward with our major projects: Gate Expansion, Great Hall, Peña Boulevard
 - Reprioritized \$3.5 billion Capital Improvement Program to leverage low passenger traffic to expedite certain projects



GREAT HALL PROJECT



- Improves security of TSA checkpoints
- Meets passenger growth demands
 - Terminal only built for 50 million annual passengers
 - 69 million annual passengers in 2019
 - 39 new gates operational by early 2022; first gates opened November of 2020
- Enhances passenger experience and operational efficiency

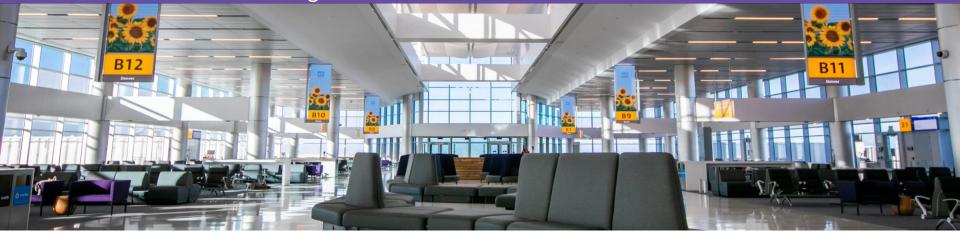


GATE EXPANSION



- \$1.5 billion program
- Adds 39 gates, all operational by early 2022
- Over 1,000 construction workers
- New terraces at the end of the concourses, new restrooms, new signage,
 conveyances and systems

On time and on budget

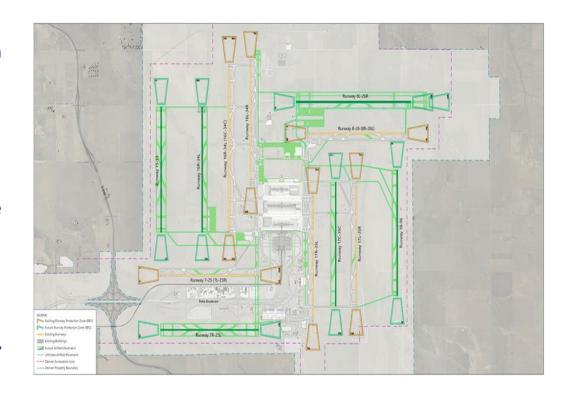


Designed for Growth



DEN Master Plan & History

- DEN's 53 square miles of land can accommodate up to 12 runways with an estimated capacity of 1.23 million aircraft landings and takeoffs.
- In 1989, an Environmental Impact Statement was completed for the initial 6 runways, with the intent to perform additional reviews for future buildout.
- DEN's land was purchased to accommodate these 12 runways and associated clear zones to protect the Airport and its neighbors from noise, and other environmental impacts



DEN BY THE NUMBERS



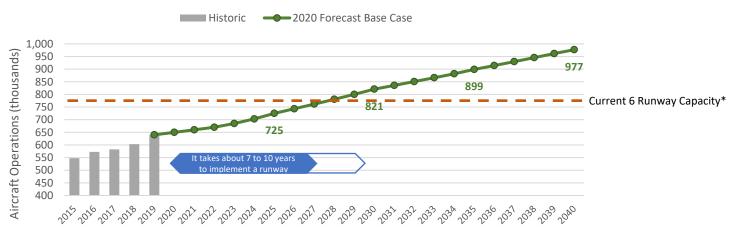


DEN Previous Runway Planning and Future Need



- Recent forecasts indicate that a runway could be justified as soon as 6 years, depending on COVID-19 recovery
- A new runway can take 10 years for environmental review, planning, design, and construction
- DEN has coordinated with the FAA over the past 24 months to discuss the future runway need and study requirements
- Critical that DEN takes action to maintain its level of service for the airspace system





SOURCES: InterVISTAS, Denver International Airport Aviation Activity Forecast, August 2020 (forecast); City and County of Denver, Department of Aviation, April 2019 (Historical); *FAA Annual Service Volume Study for DEN, December 2016 (ASV).,4-minute average delay

DENVER INTERNATIONAL AIRPORT

DEN Future Runway Planning



DEN Future Runway Planning Studies Currently Underway

- Airfield planning studies and analyses for subsequent Environmental Review:
 - Surrounding airspace and DEN airfield simulation modeling
 - Airfield and runway system demand and capacity analysis
 - Runway system configuration and length analysis
- Planning studies will provide data for the FAA National Environmental Policy Act (NEPA) process:
 - Purpose and need, alternatives, affected environment, and environmental consequences review
 - Planning studies will narrow down potential alternatives

DEN Runway Delivery Approach



Project Approach

- Built-in off-ramps for DEN, City and County of Denver, and FAA
 - Phase I Environmental Review, including up to 30% design
 - Phase II Final Design and Construction of the 7th Runway
- DEN is procuring three Professional Services consultants for Phase 1:
 - Environmental
 - Design
 - Program Management Services
- DEN must amend these contracts with City Council approval to complete Phase II
- Close coordination with FAA is required throughout to comply with Federal funding requirements

CONCEPTUAL RUNWAY SCHEDULE



BASELINE CONCEPTUAL SCHEDULE

	_																																							
	2020			2021				2022			2023			2024			2025			2026					2027				2028			2029								
	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4
Define	RUN	UNWAY PLANNING STUDIES																																						
PMT Procurement				PR	ocu	REM	ENT																																	
Design Procurement				PR	ocu	REM	ENT		Ph	ase I												T	Phas	e II																
Environmental Consultant				PR	OCU	REM	ENT	1)													> 2)=																		→
Environmental Review Process					PRE-ENVR. REVIEW ENV										ENVR. REVIEW																									
Design Services				PRE-ENVR. DESIGN									ENV	'R. R	EVIE	W DESIGN SUPPORT					COMPLETE DESIG					IGN														
Program Management Services					PRE-ENVR. DESIGN ENVR. REVIEW DES											DESIGN OVERSIGHT					DESIGN AND CONSTRUCTION						PROGRAM MANAGEME				MEN	NT SERVICES								
Contract Amendment (City Council)																				CA #	2																			
Construction Procurement																CM	AR PI	ROCU	REM	ENT																				
Construction																						CMA	R Co	nstru	ruction Delivery									*						
Closeout																																								-

Legend of Required Approvals and Key Events

* -

Runway Open to Air Traffic

-

DEN Administration and Denver City Council

RFQ PROCUREMENT SCHEDULE

- Procurement of Environmental, Designer, and Program Management Services contracts
- Phase markers are required approval points
- To meet future growth, DEN is beginning the process now in anticipation for completion in 8+ years
- Project schedule shown is high level, conceptual, and is subject to change throughout project duration

DEN/FAA Future Outreach



Environmental Review – Phase I

- Public Involvement Plan (PIP) and Outreach Approach
 - Increase public awareness of the National Environmental Policy Act (NEPA) process
 - PIP provides roles of the agency and the public, schedule, coordination, and communication throughout
 - Educate the public on the challenges associated with the project
 - Encourage the public to become involved in the environmental review process
 - FAA and Environmental Consultant will be responsible for conducting public meetings/hearings, but DEN will conduct our own outreach as well.

DENVER INTERNATIONAL AIRPORT



