



COLORADO

Department of Transportation

I-25 North Express Lanes: Segment 6 - Berthoud to Johnstown Johnstown Work Session

February 28, 2022



2021 Progress

I-25 NORTH EXPRESS LANES SEGMENT 6, 7, AND 8 BERTHOUD TO FORT COLLINS

Year in Review



COLORADO
Department of Transportation

EXPRESS LANES NORTH I-25
Johnstown to Fort Collins

- Interchange
- Bridge
- Point of Entry
- Mobility HUB
- Carpool Lot

- Completion Status:**
- 100%
 - 50%
 - 0%

- First diverging diamond interchange in Northern Colorado
- 24 different traffic phases to keep traffic moving
- Kechter CLOMR approved in first review



Segment 6 - CO 56 to CO 402

Construction is 43% Complete
30% Complete with Paving, Phase 1 Paving 100% Complete
Utility Relocations are 80% Complete
ROW Acquisitions are 83% Complete

Segment 7 - CO 402 to CO 392

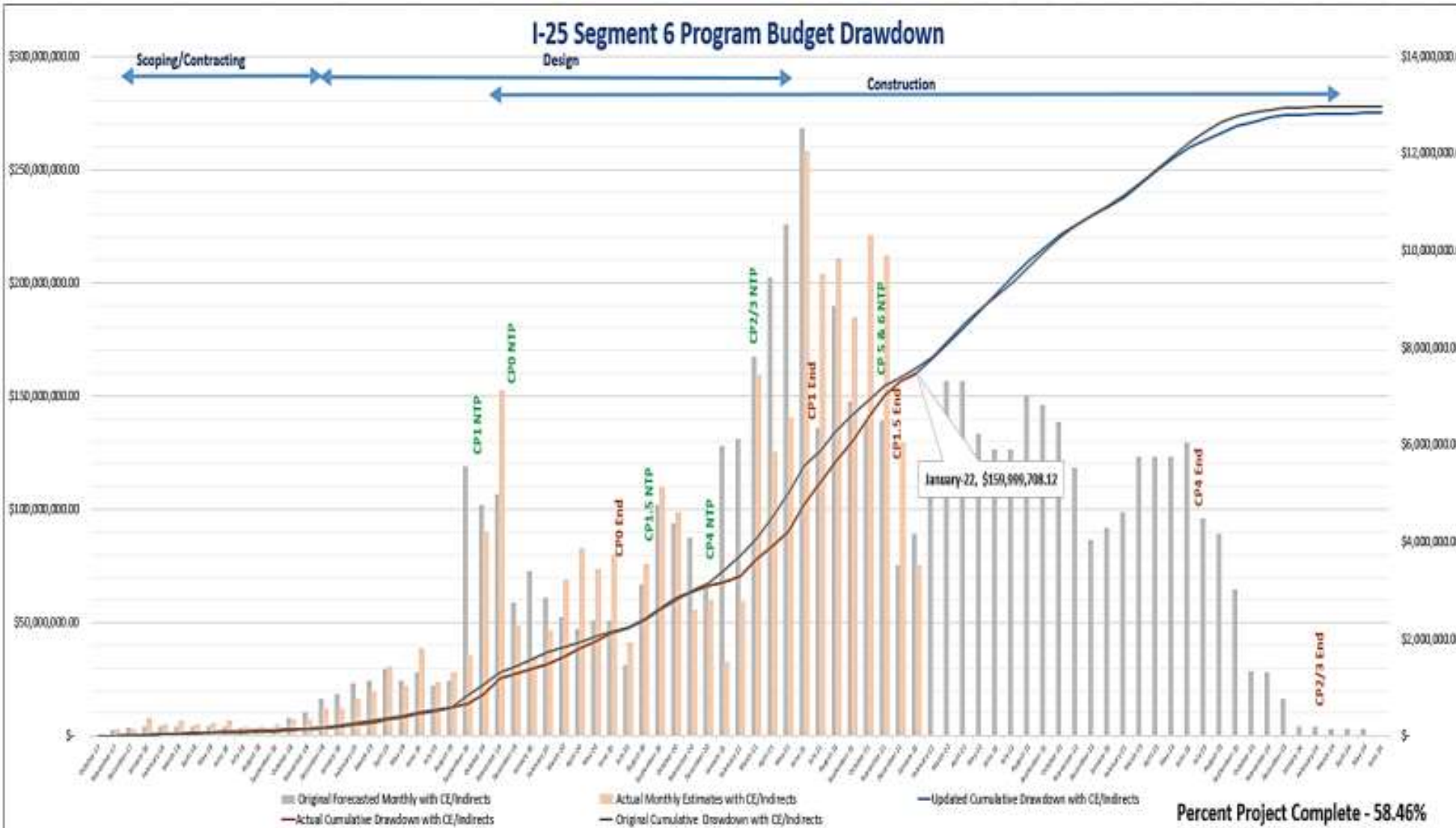
Construction is 60% Complete
65% Complete with Paving
Utility Relocations are 98% Complete
ROW Acquisitions are 100% Complete

Segment 8 - CO 392 to CO 14

Construction is 60% Complete
65% Complete with Paving
Utility Relocations are 98% Complete
ROW Acquisitions are 100% Complete



Programmatic Update I-25 Segment 6 Update



Total Project: 59% Complete

- Design
- ROW
- Utilities
- Construction

Total Construction: 51% Complete

Schedule:

- CO 60 - complete by Q2 2023
- Project - complete by Q2 2024

Right on target:

- Scope
- Schedule
- Budget



CO 56 Construction I-25 Segment 6 Update

- Most dangerous area on North I-25
- “Flipped” the interchange to correct vertical and horizontal curves





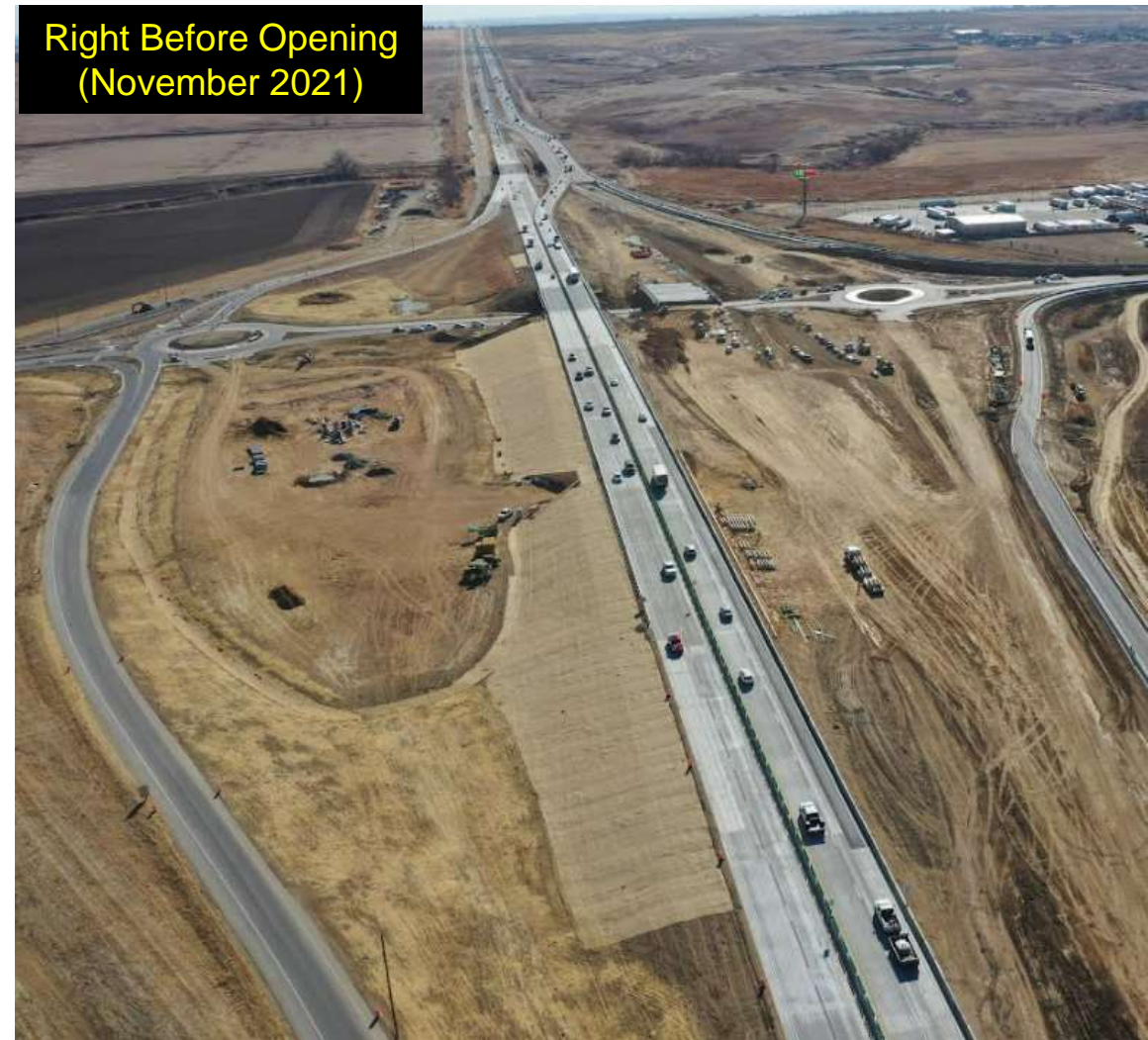
CO 56 Construction I-25 Segment 6 Update

- Messaged 140-day Closure
- Opened at 114 days and before Thanksgiving

Pre-Closure (July 2021)



Right Before Opening (November 2021)





CO 56 Construction I-25 Segment 6 Update

Next Steps:

- Construct and tie-in southbound on and off ramps - complete in late Spring 2022
- Construct and pave southbound lanes - complete in late Summer/Fall (waiting for consistently good temperatures)
- Construct Mobility Hub - complete and operational by end of the project (2024)





Project Progress I-25 Segment 6 Update

Roadway Work

- Completed **Phase 1** paving
- Traffic has been shifted to the new widened section on the outside southbound barrel
- This winter/spring - build inside bridges on southbound barrel
- Summer 2022 - complete **Phase 2** paving (inside southbound)
- Winter 2022 - construct bridges on northbound barrel
- Summer 2023 - complete **Phase 3** paving (northbound barrel)

Design Work & Negotiations

- **Construction Package (CP) 7 - LCR 16 SB onramp**

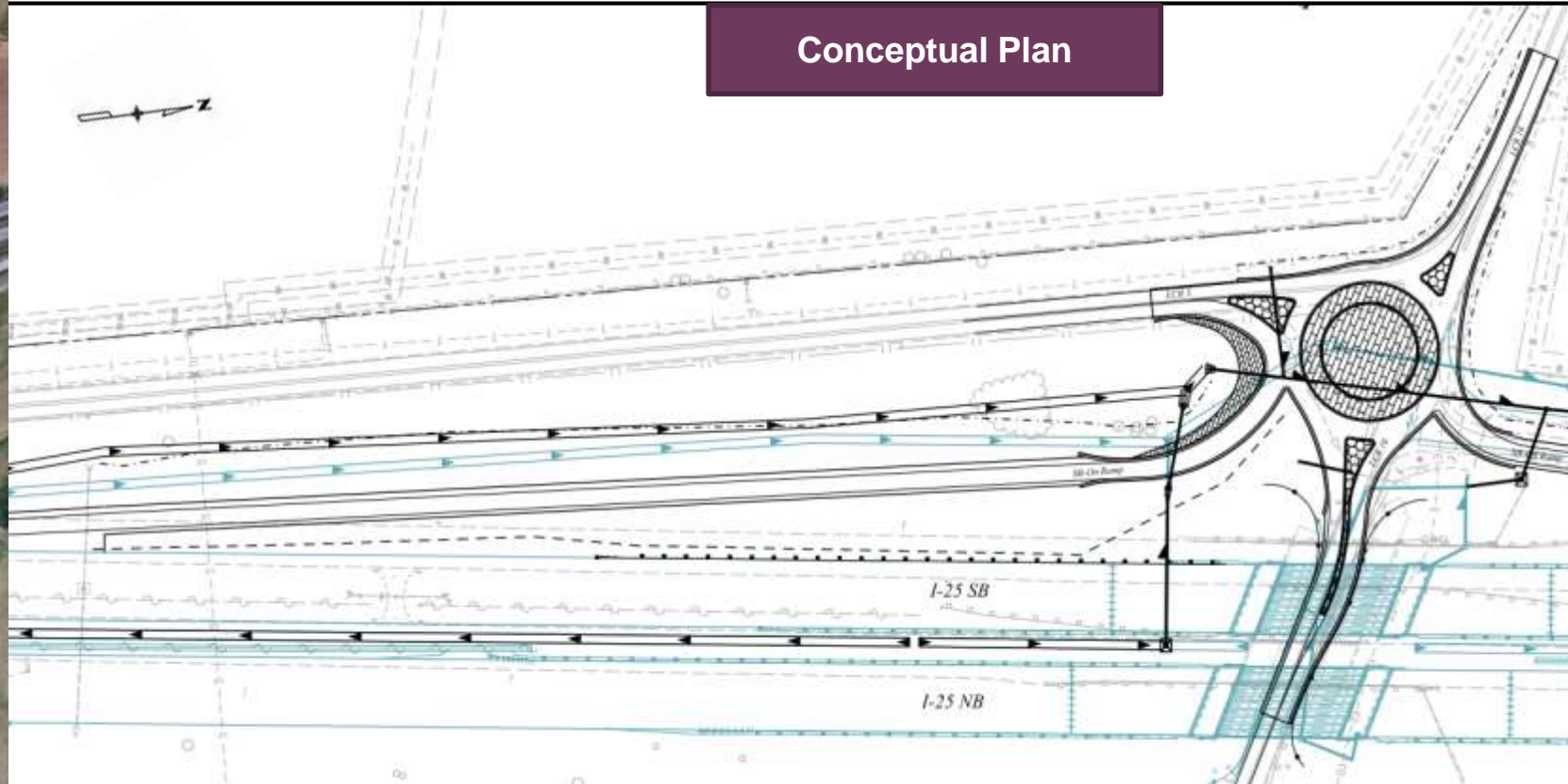




I-25 Segment 6 Update

CP 7 Update

- CDOT worked in partnership with NFRMPO to find \$5M in additional funding
- Currently at 20% design, progressing to 100% plans





Segment 5 I-25 Update

Unsolicited P3 Proposal (ROADIS)

- Submitted for Segments 2-8 (Thornton to Ft. Collins)
- Passed Phase 1
- Currently in Phase II (ROADIS to provide a ~50-page proposal)
- IF** passes to Phase III → CDOT commits to go P3 & ROADIS will be shortlisted

OR

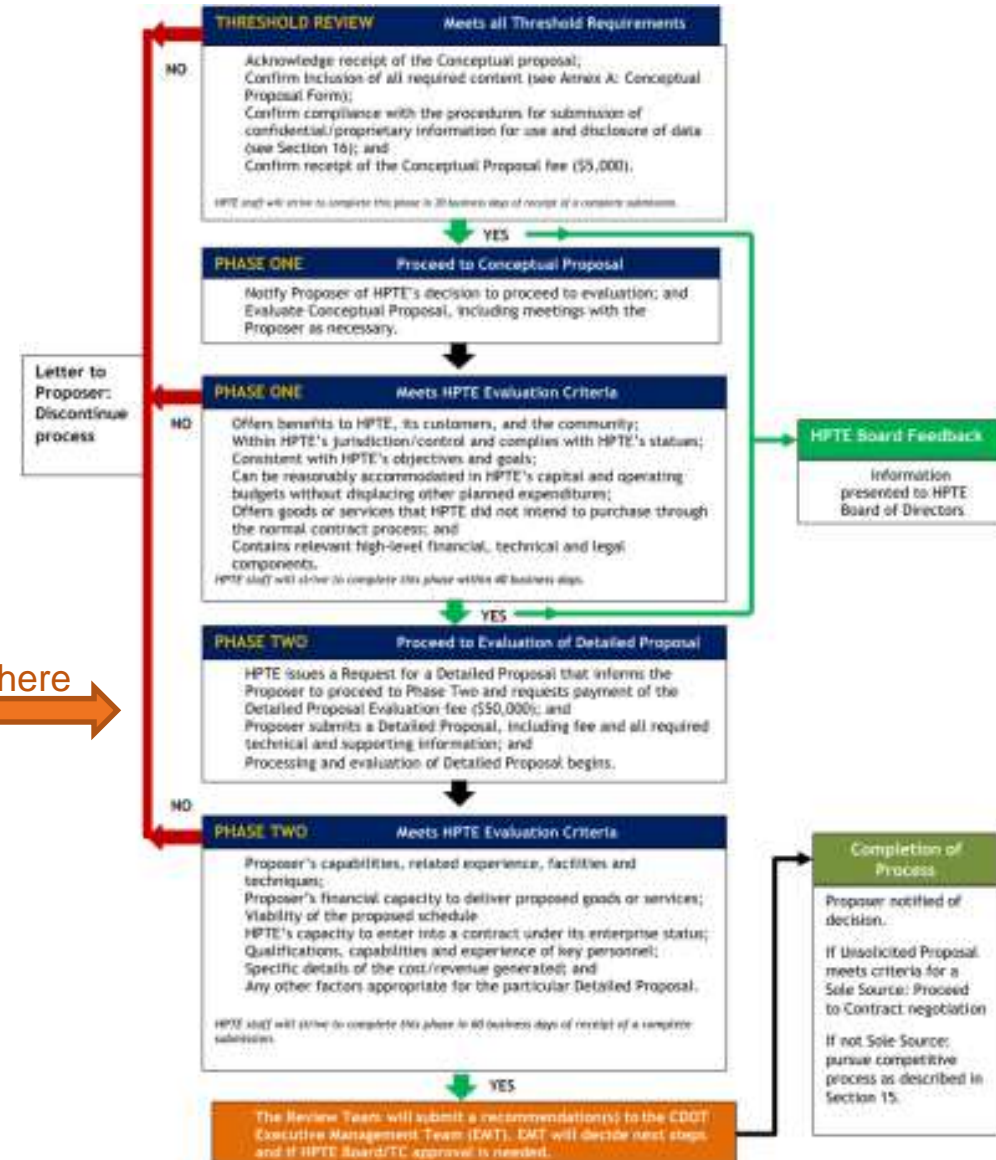
Segment 5 Design RFP

- If doesn't go P3, CDOT will issue a design RFP
- Current designer has reached their contract cap

We are here →

Segment 5 Funding

- R4 recommending prioritized partial funding in 10-year plan (TC adopts in July)
- Leverage 10-year plan money to seek Federal Grant opportunities





2021 Year in Review

I-25 NORTH EXPRESS LANES SEGMENT 6, 7, AND 8 BERTHOUD TO FORT COLLINS

Year in Review



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EXPRESS LANES | NORTH I-25
Johnstown to Fort Collins



\$203,399,674 *with*
486,689 Labor Hours
436,478 Equipment Hours
Completed on Project

586 Subcontractors
142 DBE

1.2 Million Cubic Yards
of Embankment Earthwork



88,519 Square Feet
of walls

11,862 Square Feet
of Sidewalks & Bikeways



262,914 Square Yards
of Concrete Paving



61,627 Tons
of Asphalt



24,788 Feet
of drainage pipe

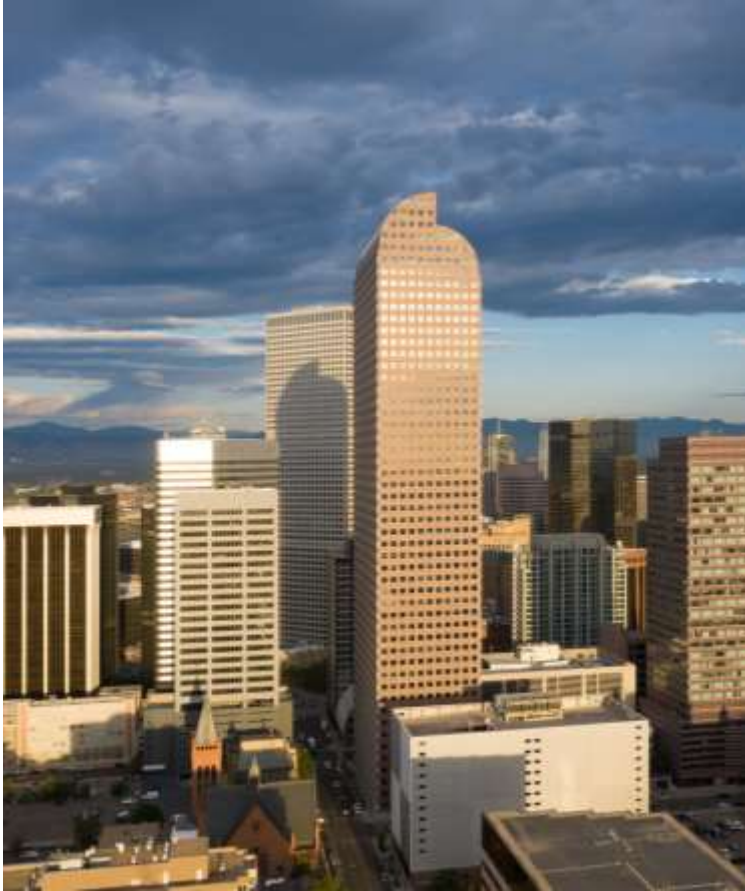


3 Water Quality Ponds
Constructed





2021 Year in Review



Description	Unit	Segment 6	Segment 7/8	Total
General Project Info				
Work Completed on Project	Dollars	\$ 87,485,383	\$ 115,914,292	\$ 203,399,674
Labor Hrs	HOUR	151,773	334,916	486,689
Equipment Hrs	HOUR	142,383	294,095	436,478
Subcontractors	Each	41	545	586
DBE Contractors	Each	21	121	142
Safety Incidents	Each	0	1	1
Construction Noise Complaints	Each	0	0	0
Roadway Work				
Embankment	CY	545,533	725,043	1,270,576
Roadbase	Tons	28,561	100,759	129,320
Asphalt	Ton	34,392	27,235	61,627
Concrete Paving	SY	78,754	184,160	262,914
Dowel Bars	Each	44,971	55,248	100,219
Saw Cutting	Miles	32	72	104
Sidewalks/Bikeways	SF	2,880	8,982	11,862
Drainage/Water Quality				
Pipe	LF	13,385	11,403	24,788
Water Quality Ponds Constructed	Each	1	2	3
Structures				
Structure Excavation	CY	9,535	44,320	53,855
Structure Backfill	CY	13,063	62,230	75,293
Steel Piling	LF	4,438	5,459	9,897
Drilled Shafts	LF	656	2,003	2,659
Structural Concrete	CY	4,004	10,405	14,409
CBT Girders	LF	6,217	3,120	9,337
Concrete Box Girders	SF	16,320	26,036	42,356
Walls	SF	7,858	80,661	88,519
Reinforcing Steel	LBS	1,022,323	1,381,851	2,404,174





CO 60 Construction I-25 Segment 6 Update

CO 60 Interchange - Diverging Diamond Interchange

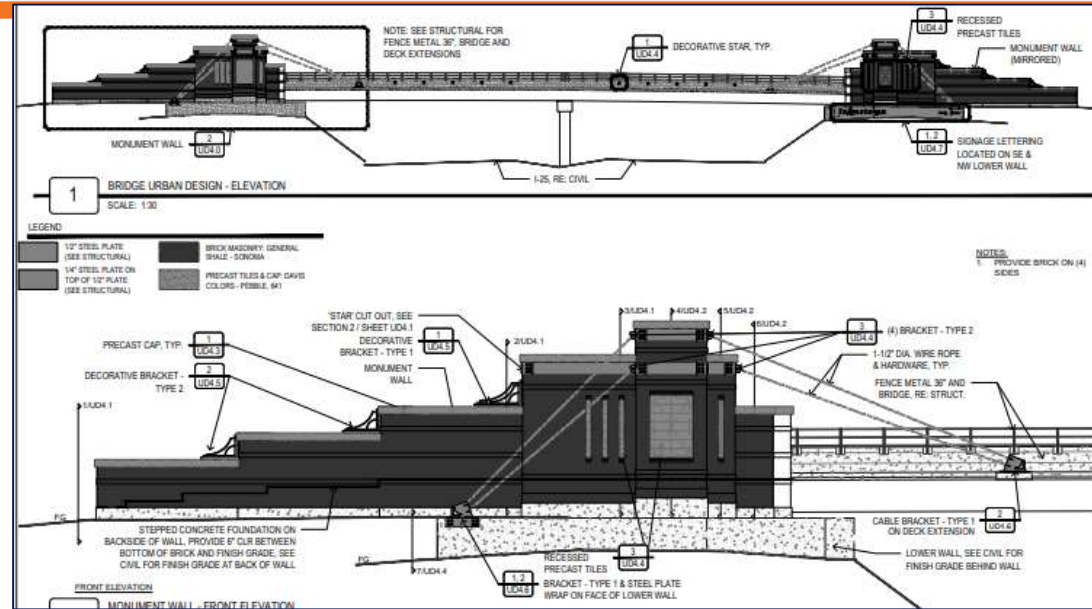
- CDOT has built base configuration
- Johnstown is contributing money for aesthetic and landscaping improvements (Construction Package 5)





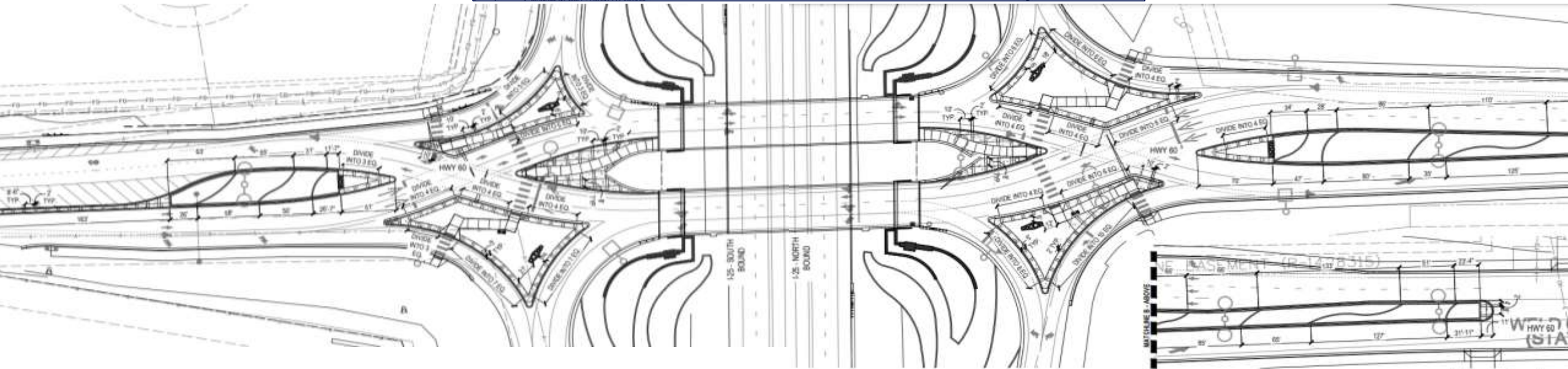
Required Closures:

- CP5 pricing includes a 21-day bridge (east/west) closure
- Includes intermittent ramp closures
- Needed for worker and public safety
- Projected for July/August



21-day Closure Work Elements

- Drainage Pipes
- Curb and Gutter
- Asphalt Tie ins
- Traffic Signals
- Striping



Date		Scope	Configuration	Closures*		Notes:	
				Ramps	Bridges		
April	1st	Notice To Proceed					<p>1. * - Closures defined as those outside of what is allowed in lane closure strategy</p> <p>2. Schedule assumes an April 1st NTP for CP 5</p> <p>3. These dates are approximate and may minimally shift based on a variety of factors. Closure durations will not change.</p> <p>4. <u>East/West Bridge Closure</u></p> <ul style="list-style-type: none"> • Shall be no longer than 21 days and will not encompass any State Holidays • Extended weekday shifts and weekend shifts will be utilized to maximize work during closure • Two weather days were assumed during closure • If project lags because of production, weather, and/or any other reason, night work will be utilized to ensure needed work is completed during 21-day closure time.
	Other	•Monument Wall Shoring & H-Pile •Concrete for Lower Walls Footing	Diamond - Existing Configuration	None	South Bridge (current condition)		
May	•Monument Wall H-Pile and Footings •Lower Wall Earthwork •Lower Wall Backfill	Diamond - Existing Configuration	None				
June	•Lower Wall Earthwork •Lower Wall Backfill •Monument Footings/Wall Installation and Backfill	Diamond - Existing Configuration	None				
July	• NB On permanenet ramp work for opening prior to 20 day shutdown • SB Off permanent ramp work for opening prior to 20 day shutdown •Monument Footings/Wall Veneer	Diamond - Existing Configuration	NB ON & SB OFF (Simultaneous 48-hour closure for both ramps in late July)				
August	5th-10th	•Drainage Pipe Installation CP 2/3 Only •Embankment Work	N/A	SB ON & NB OFF (starting on the 5th through 13th simultaneous for both (9 days total))	Full	Closures to occur at 6am on the 5th. The SB On and the NB Off ramps will be closed from the beginning of the three-week closure (5th to the 13th)	
	10th-19th	•Curb and Gutter Installation CP 2/3 Only	N/A	Partial		SB On and NB Off remain closed until Aug 13	
	11th-24th	•Guardrail Installation	N/A	None		SB On and NB Off remain closed until Aug 13	
	18th-24th	•Signal Installation	N/A	All (1 day per each ramp/ not simultaneous)		Need short-term closures on each ramp movement to hang signals. One ramp closure at a time (4 consecutive days)	
	22nd-24th	•Pave approaches	N/A	All (1 day per each ramp/ not simultaneous)		Need short-term closures on each ramp movement to pave approaches. One ramp closure at a time (4 consecutive days)	
	25th	•Shift to DDI Configuration and stripe	N/A	All		Full 12-hour closure for final striping (daytime needed for QA), road shall open by 9pm on the 25th	
	Other	•Additonal Irrigation, Curb Installation •Monument Wall and Vaneer Install and Backfill	August 1-5: Diamond-existing configuration August 26-31: Single-lane DDI	Single lane closure on DDI, but providing the lane number that currently exists		Single lane closure needed to allow contractor and subs to perform work in critical locations	
September	•Curb, Sidewalk, Median Installation •Monument Wall and Vaneer Install and Backfill	Single-lane DDI					
October	•Median and Planter Installation •Monument Wall and Vaneer Install and Backfill	Single-lane DDI					
November	•Cable, Brackets, Arch, Fence, Caps Installation •Monument Wall and Vaneer Install and Backfill	Single-lane DDI					
December	•Cable, Brackets, Arch, Fence, Caps Installation	Single-lane DDI					
January	1st - 25th	•Cap Installation	Single-lane DDI	None			If a ribbon cutting ceremony is requested, may have an extra day closure depending on location of ceremony.
	26th	•Fully Open	DDI and Ramps Fully Open				
	26th	•Ribbon Cutting?	DDI and Ramps Fully Open				

Will Update Slide with more digestible info

